

Table of contents

1. Mechanism and chance: Toward an account of stochastic mechanism for the life science

2. The Self-Body Problem in Descartes and Malebranche

3. Visualizing the irradiated body and radioactive landscape in American art, 1945-1976

4. The a priori nature of the political: Democracy and scientific method in Thomas Hobbes

5. Modular Theory and Spacetime Structure in QFT

6. The Cognitive Neuroscience of Mathematics: Tuning Up the Number System

7. The Fate of Invention in Late 19th Century French Literature

8. Speaking in circles: Completeness in Kant's metaphysics and mathematics

9. All at one point: The new physics of Italo Calvino and Jorge Luis Borges

10. The arts of the microbial world: Biosynthetic technologies in twentieth-century Japan

11. Essays on Biological Individuality

12. Changing Climates: Deserts, Desiccation, and the Rise of Climate Engineering 1870-1950

13. The garden politic: Botany, horticulture, and domestic cosmopolitanism in nineteenth-century American literature

14. Between the Arctic & the Adriatic: Polar Exploration, Science & Empire in the Habsburg Monarchy

15. Tabling Death: Life Insurance in Modern Japan, 1881-1945

16. The National Character of Science: Statistics in modern Japan

17. Image objects: An archaeology of 3D computer graphics, 1965-1979

18. Universal Biology

19. Science of sleep: Tracing the visual language of dreams from Fuseli to Gondry

20. An evaluation of the Brazilian policies for science and technology in the light of theories of development: 1960-1985 period

21. The changing role of scientists and technologists in defense policy creation

22. THE EMERGENCE OF NEW COMPETITION IN THE AMERICAN PETROLEUM INDUSTRY BEFORE 1911

23. Sociological thought of Leonard T. Hobhouse

Mechanism and chance: Toward an account of stochastic mechanism for the life science

Author: DesAutels, Lane

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636505532?accountid=14709>

Abstract: In this dissertation, my aim is to develop some important new resources for explaining probabilistic phenomena in the life sciences. In short, I undertake to articulate and defend a novel account of stochastic mechanism for grounding probabilistic generalizations in the life sciences . To do this, I first offer some brief remarks on the concept of mechanism in the history of philosophical thought. I then lay out some examples of probabilistic phenomena in biology for which an account of stochastic mechanism seems explanatorily necessary and useful: synaptic transmission in the brain, protein synthesis, DNA replication, evolution by natural selection, and Mendelian inheritance. Next, I carefully examine the concept of regularity as it applies to mechanisms--building on a recent taxonomy of the ways mechanisms may (or may not) be thought to behave regularly. I then employ this taxonomy to sort out a recent debate in the philosophy of biology: is natural selection regular enough to count as a mechanism? I argue that, by paying attention to the forgoing taxonomy, natural selection can be seen to meet the regularity

requirement just fine. I then turn my attention to the question of how we should understand the chance we ascribe to stochastic mechanisms. To do this, I form a list of desiderata that any account of stochastic mechanism must meet. I then explore how mechanisms fit with several of the going philosophical accounts of chance: subjectivism, frequentism (both actual and hypothetical), Lewisian best-systems, and propensity. I argue that neither subjectivism, frequentism, nor best-system-style accounts of chance will meet all of the proposed desiderata, but some version of propensity theory can. Borrowing from recent propensity accounts of biological fitness and drift, I then go on to explore the prospects for developing a propensity interpretation of stochastic mechanism (PrISM) according to which propensities are (i) metaphysically analyzable and operationally quantifiable via a function of probability-weighted ways a mechanism might fire and (ii) not causally efficacious but nonetheless explanatorily useful. By appealing to recent analyses of deterministic and emergent chance, I argue further that this analysis need not be vulnerable to the threat of metaphysical determinism.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=DesAutels%2C+Lane&rft.aulast

=DesAutels&rft.aufirst=Lane&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321321463&rft.btitle=&rft.title=Mechanism+and+chance%3A+Toward+an+account+of+stochastic+mechanism+for+the+life+science&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=DesAutels%2C+Lane&rft.aulast=DesAutels&rft.aufirst=Lane&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321321463&rft.btitle=&rft.title=Mechanism+and+chance%3A+Toward+an+account+of+stochastic+mechanism+for+the+life+science&rft.issn=&rft_id=info:doi/

Subject: Philosophy of Science

Classification: 0402: Philosophy of Science

Identifier / keyword: Philosophy, religion and theology, Life sciences, Biology, Chance, Mechanism, Probability, Stochastic

Title: Mechanism and chance: Toward an account of stochastic mechanism for the life science

Number of pages: 218

Publication year: 2014

Degree date: 2014

School code: 0117

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321321463

Advisor: Darden, Lindley

Committee member: Lyon, Aidan, Frisch, Mathias, Pfeifer, Jessica, Carruthers, Peter

University/institution: University of Maryland, College Park

Department: Philosophy

University location: United States -- Maryland

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644095

ProQuest document ID: 1636505532

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636505532?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 2 of 23

The Self-Body Problem in Descartes and Malebranche

Author: Chamberlain, Colin William

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428905?accountid=14709>

Abstract: Descartes and Malebranche often seem to argue that the self (or I) is identical to an immaterial thinking substance distinct from the body. But there are also many passages where they insist that the body is part of the self.

This means that Descartes and Malebranche have a problem, since they seem to endorse three mutually inconsistent propositions: (1) I am an immaterial thinking thing. (2) Immaterial things don't have bodily parts. (3) I include my body as part of myself. I call this puzzle the self-body problem. It is a problem about understanding how we--the immaterial thinking subjects who engage in the self-reflective project of the Meditations --can incorporate our bodies into ourselves. I argue that Descartes and Malebranche have an elegant solution to this inconsistency. On my interpretation, the Cartesian self is not identical to an immaterial thinking substance. Rather, the Cartesian self is a variably constituted being that has different parts at different times and in different possible situations. Sometimes the self exists with both an immaterial thinking part and a bodily part. Other times it exists with only an immaterial part. The immaterial part is essential to the self, the bodily part is not. When Descartes and Malebranche say that I am immaterial, what they really mean is that I essentially have an immaterial part. But that is consistent with the claim that my body is part of myself.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Chamberlain%2C+Colin+William&am

p;rft.aulast=Chamberlain&rft.aufirst=Colin&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334371&rft.btitle=&rft.title=The+Self-Body+Problem+in+Descartes+and+Malebranche&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Chamberlain%2C+Colin+William&rft.aulast=Chamberlain&rft.aufirst=Colin&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334371&rft.btitle=&rft.title=The+Self-Body+Problem+in+Descartes+and+Malebranche&rft.issn=&rft_id=info:doi/

Subject: Philosophy

Classification: 0422: Philosophy

Identifier / keyword: Philosophy, religion and theology, Descartes, rene, Early modern, Embodiment, Malebranche, nicolas, Mind-body union, Self

Title: The Self-Body Problem in Descartes and Malebranche

Number of pages: 155

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321334371

Advisor: Simmons, Alison J.

Committee member: McDonough, Jeffrey, Newlands, Samuel

University/institution: Harvard University

Department: Philosophy

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644967

ProQuest document ID: 1625428905

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428905?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 3 of 23

**Visualizing the irradiated body and radioactive landscape in
American art, 1945-1976**

Author: Orgeman, Keely

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018773?accountid=14709>

**Abstract: Looking beyond mushroom-cloud imagery, this
dissertation investigates the greater effect that radiation
science had on intellectually and imaginatively stimulating**

the visual artists László Moholy-Nagy, Ralston Crawford, Ben Shahn, and Bruce Conner, who sought knowledge of the long-range consequences of nuclear testing. Primarily concerned with the specter of the tests' aftermath rather than the spectacle of the explosions themselves, these artists explored the toxicity of radiation and ultimately discovered, I argue, that they lived in perpetual and uneasy co-existence with their subject. This study chronologically follows the course of scientific inquiry into radiological effects, from the Second World War to the height of the Cold War, beginning in the first chapter with a discussion of the role of nuclear medicine in the work of Moholy-Nagy. In postwar Chicago, he developed his earlier engagement with x-ray photographs into a deeper knowledge of atomic processes, which culminated in two paintings that suggest the healing and hazardous effects of nuclear energy. The second chapter considers Crawford's commission by Fortune magazine in 1946 to illustrate an atom-bomb test in the Pacific, for which he made several renderings based on post-blast meteorological and radiological data. The critical response to these works exposed not only the public's lack of understanding about the invisible phenomena of the bomb, but also Crawford's own loose grasp of the pertinent science. Continuing the focus on newsworthy nuclear events, the third chapter examines Shahn's portraits of J. Robert Oppenheimer, following the latter's official censure by the Atomic Energy Commission in 1954, and Shahn's paintings and drawings about a contemporaneous fallout disaster leading to the death of a Japanese fisherman. Both series link the heedless actions of scientists and their

government employers to the rise of universal radiation sickness, precipitated by what Shahn perceived as mass dehumanization. The fourth and final chapter addresses Conner's long-held view that San Francisco, the city in which he lived, was radioactively contaminated and a potential target of nuclear attack. Through the representation of self-destruction in his assemblages and films, Conner mimed a cultural malaise that struck him as particularly rampant in the local environment of nuclear experimentation.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Orgeman%2C+Keely&rft.aulast=Orgeman&rft.aufirst=Keely&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321352580&rft.btitle=&rft.title=Visualizing+the+irradiated+body+and+radioactive+landscape+in+American+art%2C+1945-1976&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+

**Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&am
p;rft.genre=dissertations+%26+theses&rft.jtitle=&am
p;rft.atitle=&rft.au=Orgeman%2C+Keely&rft.aulast
=Orgeman&rft.aufirst=Keely&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft
t.isbn=9781321352580&rft.btitle=&rft.title=Visualiz
ing+the+irradiated+body+and+radioactive+landscape+in+Am
erican+art%2C+1945-
1976&rft.issn=&rft_id=info:doi/**

Subject: Art history

Classification: 0377: Art history

**Identifier / keyword: Communication and the arts, American
art, Radioactive landscape, Visual artists**

**Title: Visualizing the irradiated body and radioactive
landscape in American art, 1945-1976**

Number of pages: 352

Publication year: 2014

Degree date: 2014

School code: 0017

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321352580

Advisor: Hills, Patricia

**Committee member: Williams, Gregory, Sichel, Kim, Morgan,
Keith, Grundmann, Roy**

University/institution: Boston University

Department: History of Art and Architecture

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645848

ProQuest document ID: 1629018773

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018773?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 4 of 23

The a priori nature of the political: Democracy and scientific method in Thomas Hobbes

Author: Craig, Patrick

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1639618933?accountid=14709>

Abstract: My dissertation provides a treatment of Hobbes's politics in light of his conception of scientific method. The scholarship devoted to these two components of Hobbes's thought, that is his account of scientific method and his political philosophy, have largely existed in isolation from one another. Reading his politics through the lens of his account of scientific method, I bring two bodies of research on Hobbes together, and in so doing, offer a unique account of his political philosophy. When Hobbes's political philosophy is approached in the way I suggest, what one finds is not a simple defense of authoritarian absolutism, but instead a much more progressive political theory, one that is structured around the democratic power of "the people" as a constitutive political force.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Craig%2C+Patrick&rft.aulast=Craig&rft.aufirst=Patrick&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321360479&rft.btitle=&rft.title=The+a+priori+nature+of+the+political%3A+Democracy+and+scientific+method+in+Thomas+Hobbes&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Craig%2C+Patrick&rft.aulast=Craig&rft.aufirst=Patrick&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321360479&rft.btitle=&rft.title=The+a+priori+nature+of+the+political%3A+Democracy+and+scientific+method+in+Thomas+Hobbes&rft.issn=&rft_id=info:doi/

Subject: Philosophy; Political science

Classification: 0422: Philosophy; 0615: Political science

Identifier / keyword: Philosophy, religion and theology, Social sciences, Democracy, Multitude, Politics, Scientific method, Hobbes, thomas

Title: The a priori nature of the political: Democracy and scientific method in Thomas Hobbes

Number of pages: 280

Publication year: 2014

Degree date: 2014

School code: 0067

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321360479

Advisor: Selcer, Daniel

Committee member: Evans, Fred, Swindal, James, Jesseph, Douglas

University/institution: Duquesne University

Department: Philosophy

University location: United States -- Pennsylvania

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3646156

ProQuest document ID: 1639618933

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1639618933?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 5 of 23

Modular Theory and Spacetime Structure in QFT

Author: Swanson, Noel Waldron

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622398743?accountid=14709>

Abstract: In quantum field theory (QFT), physical quantities are represented by a net of operator algebras indexed by spacetime region. Each local algebra comes equipped with a state-dependent pair of modular operators, (J, Δ) , encoding vital information about the algebra's internal structure, the local state, and the relational structure of the net. These operators and the associated structure theory are the subject of Tomita-Takesaki modular theory. Despite its importance, the physical significance of modular theory remains murky, and philosophers of QFT have largely ignored it. This dissertation aims to help close the gap. It explores a series of deep connections between modular theory and spacetime geometry established by the Bisognano-Wichmann theorem (which identifies the modular operators attached to spacelike wedge regions in the vacuum sector with certain generators of the Poincaré group). Chapter 1 orients my project within the current philosophical literature on the foundations of QFT. I advocate a cosmopolitan stance towards the subject, incorporating tools from Lagrangian, constructive, and algebraic field theory alike. Adopting this stance, chapter 2 introduces the core mathematical ideas behind modular theory and discusses several important physical applications centered around the Bisognano-Wichmann theorem. Chapter 3 examines how modular theory can be used to give new geometric insight into the parity-charge-time (PCT) theorem. I argue that the key to understanding the mysterious connection between spatiotemporal orientation and charge structure entailed by the theorem

lies in recognizing PCT symmetry as a single global reflection of quantum statespace. Chapter 4 turns to the vexed problem of localization in QFT. Modular theory tells us that at a fundamental level the world is thoroughly entangled. In spite of this, via the split/nuclearity conditions, modular theory also supplies critical tools needed to help explain approximately-localized emergent entities like particles and chairs. The final chapter contains a critique of the Connes-Rovelli thermal time hypothesis, a proposal to solve the problem of time in quantum gravity using modular theory. Although I conclude that the current proposal cannot provide a coherent gauge-free description of physical change in generally covariant settings, it does highlight an intriguing connection between modular structure and local dynamics in standard QFT.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Swanson%2C+Noel+Waldron&rft.aulast=Swanson&rft.aufirst=Noel&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321288155&rft.btitle=&rft.title=Modular+Theory+and+Spacetime+Structure+in+QFT&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Swanson%2C+Noel+Waldron&rft.aulast=Swanson&rft.aufirst=Noel&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321288155&rft.btitle=&rft.title=Modular+Theory+and+Spacetime+Structure+in+QFT&rft.issn=&rft_id=info:doi/

Subject: Philosophy of Science; Quantum physics

Classification: 0402: Philosophy of Science; 0599: Quantum physics

Identifier / keyword: Philosophy, religion and theology, Pure sciences, Localization, PCT theorem, Quantum field theory, Relativistic spacetime, Thermal time hypothesis, Tomita-Takesaki modular theory, Spacetime

Title: Modular Theory and Spacetime Structure in QFT

Number of pages: 183

Publication year: 2014

Degree date: 2014

School code: 0181

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321288155

Advisor: Halvorson, Hans

**Committee member: Baker, David J., Dasgupta, Shamik,
Morison, Benjamin**

University/institution: Princeton University

Department: Philosophy

University location: United States -- New Jersey

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3642158

ProQuest document ID: 1622398743

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622398743?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 6 of 23

The Cognitive Neuroscience of Mathematics: Tuning Up the Number System

Author: Emerson, Robert

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1638216573?accountid=14709>

Abstract: Living in today's society demands a functional control of math. Recent research suggests that adult mathematical skill is founded on an ontogenetically early emerging number sense, or ability to approximately estimate quantities. This ability is shared with many species, suggesting it represents a core and primitive approximate number system (ANS). Neuroimaging research in both monkeys and humans has linked the ANS to the neural responses of the intraparietal sulcus (IPS). As children mature, learn to count and calculate, the BOLD

responses of the IPS bear the ratio-dependent signature of the approximate number system. These neural responses show longitudinal profiles that suggest the ANS is relatively stable and sharpens its numerical representations across development in a way that predict their behavioral performance (Emerson & Cantlon, 2014). Children also show math-specific functional connections between the IPS and areas of frontal cortex (Emerson & Cantlon, 2012). This suggests that the IPS plays a role in fine-tuning number and math skills during development. In adults, we have observed a segregation of number-related processes vs other quantitative processes (size/brightness) in the IPS. Regions of the IPS that show a selective response to number overlap with regions that show a ratio-dependent response profile, defining the right IPS as an area of the brain that supports non-verbal numerical skill. Furthermore, we find that cortical thickness correlates with scores on standardized math assessments (SAT) in an area of the right IPS, overlapping regions that are functionally related to number skill. In other words, anatomical and functional variability in the IPS is related to both the ANS and math skill in typical adults. When we tested this region in people with advanced math training, we observed both a heightened neural response to numerical ratio as well as significantly thinner cortex in the depth of the IPS. Compared to typical adults, experts are showing a stronger response of the ANS as well as thinner cortex in a region that correlates with math skills in non-experts (Emerson, Vo, Lussier, Kurtz, & Cantlon, submitted). Taken together, these data converge on the conclusion that our uniquely human ability to use symbolic arithmetic is

critically linked to our primitive approximate number skill through a shared neural substrate in the intraparietal sulcus.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Emerson%2C+Robert&rft.aulast=Emerson&rft.aufirst=Robert&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321332841&rft.btitle=&rft.title=The+Cognitive+Neuroscience+of+Mathematics%3A+Tuning+Up+the+Number+System&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Emerson%2C+Robert&rft.aulast=Emerson&rft.aufirst=Robert&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321332841&rft.btitle=&rft.title=The+Cognitive+Neuroscience+of+Mathematics%3A+Tuning+Up+the+Number+System&rft.issn=&rft_id=info:doi/

**Subject: Neurosciences; Behavioral psychology;
Developmental psychology**

**Classification: 0317: Neurosciences; 0384: Behavioral
psychology; 0620: Developmental psychology**

**Identifier / keyword: Biological sciences, Psychology,
Cognitive neuroscience, fMRI, Numerical cognition**

**Title: The Cognitive Neuroscience of Mathematics: Tuning
Up the Number System**

Number of pages: 146

Publication year: 2014

Degree date: 2014

School code: 0188

Source: DAI-B 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321332841

Advisor: Cantlon, Jessica

**Committee member: Mahon, Bradford, Langfitt, John,
Jamieson, Jeremy**

University/institution: University of Rochester

Department: School of Arts and Sciences

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644875

ProQuest document ID: 1638216573

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1638216573?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 7 of 23

The Fate of Invention in Late 19th Century French Literature

Author: Oancea, Ana I.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629017294?accountid=14709>

Abstract: This dissertation reads the novels of Jules Verne, Albert Robida, Villiers de l'Isle-Adam and Emile Zola, investigating the representation of inventors who specialize in electricity. The figure appears as the intersection of divergent literary movements: Zola, the father of Naturalism and leading proponent of a 'scientific' approach to literature, Villiers de l'Isle-Adam, decadent playwright and novelist, Robida, leading caricaturist and amateur historian, and Verne, prominent figure in the emerging genre of anticipation, all develop the inventor character as one who succeeds in realizing key technological aspirations of the 19th century. The authors, however, take a dim view of his activity. Studying the figure of the inventor allows us to gain insight into fundamental 19th century French anxieties over the nation's progress in science and technology, its national identity, and international standing. Chapter 1 focuses on the works of Jules Verne, elaborating a portrait of the inventor as he appears in the series of the *Voyages Extraordinaires*. The character returns with remarkable preponderance in subsequent installments of the series, with *Vingt mille lieues sous les mers* (1870), *L'île mystérieuse* (1874-1875), *Les Cinq cents millions de la Béguine* (1879), *Robur-le-conquérant* (1886), *Le Château des Carpathes* (1892), *Face au drapeau* (1896) and *Maître du monde* (1904) all showing him as best poised to advance French science. Emphasis is placed on his private, reclusive

pursuit of the discipline, which is contrasted by the author through the development of characters representing official science. This distinction is read in the context of Verne's educational mission, which supports the official scientists and emphasizes service to the community and the growth of their respective disciplines. Chapter 2 analyzes Albert Robida's key satirical futuristic novel *La Vie électrique* (1892). Unlike Verne, Robida illustrates perversions of progress, offering a world in which the rhythm of life is sped up to an untenable pace by inventors. Set in the 20th century, in this version of France technology is fully integrated in everyday life, the inventor is a popular idol and successful businessman. Despite this great departure from the model proposed in Chapter 1, the figure of the inventor is defined through the same seclusion and dedication to research, disdain for education and oversight of his activities. The author thereby succeeds in simultaneously illustrating the realization of France's hopes and fears about its technological development at the turn of the century. Whereas Verne gives voice to the dominant ideological perspective on science, Robida's position as satirist enables him to critique it while retaining a degree of hope, not only through aspects of the plot but also his copious illustrations. Chapter 3 focuses on the figure of Thomas Edison as the protagonist of Villiers de l'Isle-Adam's *L'Eve future*. Borrowing the electrical inventor from anticipation, the novel finds its other main source in the topoi of the decadent movement. The inventor's real-life persona is offered as guarantee of the extraordinary achievement of his fictional counterpart, in contrast to Verne's conveying

realism through scientific detail. The inventor cynically markets his work to a decadent audience, but Villiers also relies on the repertoire of this tradition to condemn him. The author merely plays at integrating Edison into the line one would imagine for him. Prometheus and Frankenstein are the mythological and literary standards against which the new figure is compared, but are quickly dismissed. Villiers then suggests Goethe's Faust as the most reliable model, only to reveal in a final, negative assessment of the Edison that he is, in fact, Mephistopheles. The novel thus constructs a modern legend of the inventor as a fusion of contemporary journalism and older literary archetypes. Chapter 4 reads Zola's Travail (1901) as a utopian re-writing of Germinal (1885). It argues that Travail realizes Germinal 's closing warning that 'new men' would eventually emerge, though it is not to avenge tragedy. These 'new men' are the same 19th century workers of Germinal , whose violence and lack of education Zola had described as infantilizing, but this time, they are the children of better fathers, who prepare them to adapt and evolve. The transformation of the working-class community depicted in the Evangile is possible through the work of a Vernian inventor, Jordan. Zola repeats many of the topoi of the character's representation in our other authors, which are again associated with singular success in the domain of electricity. Through Jordan, Zola moves away from his Naturalist of heredity, where the efforts or ambitions of the individual were thwarted by the manifestation of an ancestral tare. Travail uses the inventor figure to propose a new model, one which allows for the

transmission of acquired characteristics, and in which positive change is possible. (Abstract shortened by UMI.)

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Oancea%2C+Ana+I.&rft.aulast=Oancea&rft.aufirst=Ana&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321353075&rft.btitle=&rft.title=The+Fa+te+of+Invention+in+Late+19th+Century+French+Literature&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Oancea%2C+Ana+I.&rft.aulast=Oancea&rft.aufirst=Ana&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321353075&rft.btitle=&rft.title=The+Fa+te+of+Invention+in+Late+19th+Century+French+Literature&rft.issn=&rft_id=info:doi/

Subject: Romance literature; Science history

Classification: 0313: Romance literature; 0585: Science history

Identifier / keyword: Language, literature and linguistics, Social sciences, Anticipation, Decadence, Electricity, Naturalism, Science

Title: The Fate of Invention in Late 19th Century French Literature

Number of pages: 290

Publication year: 2014

Degree date: 2014

School code: 0054

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321353075

Advisor: Ladenson, Elisabeth A.

University/institution: Columbia University

Department: French and Romance Philology

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645893

ProQuest document ID: 1629017294

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629017294?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 8 of 23

**Speaking in circles: Completeness in Kant's metaphysics
and mathematics**

Author: Robinson, Elizabeth Ann

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018770?accountid=14709>

Abstract: This dissertation presents and responds to the following problem. For Kant a field of enquiry can be a science only if it is systematic. Most sciences achieve systematicity through having a unified content and method. Physics, for example, has a unified content, as it is the science of matter in motion, and a unified method because all claims in physics must be verified through empirical testing. In order for metaphysics to be a science it also must be systematic. However, metaphysics cannot have a unified content or method because metaphysicians lack a positive conception of what its content and method are. On Kant's account, metaphysicians can say with certainty what metaphysics does not study and what methods it cannot use, but never how it should proceed. Without unified content and method systematicity can only be guaranteed by some other means, namely, completeness. Without completeness metaphysics cannot have systematicity and every science must be systematic. Completeness can only be achieved if we severely limit the scope of metaphysics so that it contains only the conditions for the possibility of experience. This dissertation defends the claims made about the centrality of completeness in understanding Kant's conception of metaphysics as a science in two ways. First, the first two chapters point to a substantial body of textual evidence that supports the idea that Kant was directly concerned about the notion of completeness and links it to his conception of metaphysics as a science. Chapters 3 and 4 consider some possible objections to thinking that metaphysics as a science can be complete,

giving special consideration to Gödel's incompleteness theorem. Chapter 5 explains why, if this position is as clear as this dissertation has argued, previous scholars have failed to acknowledge it. Giving a full answer to this question requires considering the general neglect of the "Doctrine of Method" section of Kant's primary theoretical text, The Critique of Pure Reason. The Doctrine of Method contains many of the passages which most directly support my thesis. Chapter 6 explains why scholars have ignored this important passage and argues that they should not continue to do so.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Robinson%2C+Elizabeth+Ann&rft.aulast=Robinson&rft.aufirst=Elizabeth&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321352610&rft.btitle=&rft.title=Speaking+in+circles%3A+Completeness+in+Kant%27s+metaphysics+and+mathematics&rft.issn=&rft_id=info:doi/

[http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-](http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Robinson%2C+Elizabeth+Ann&rft.aulast=Robinson&rft.aufirst=Elizabeth&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321352610&rft.btitle=&rft.title=Speaking+in+circles%3A+Completeness+in+Kant%27s+metaphysics+and+mathematics&rft.issn=&rft_id=info:doi/)

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Robinson%2C+Elizabeth+Ann&rft.aulast=Robinson&rft.aufirst=Elizabeth&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321352610&rft.btitle=&rft.title=Speaking+in+circles%3A+Completeness+in+Kant%27s+metaphysics+and+mathematics&rft.issn=&rft_id=info:doi/

Subject: Philosophy

Classification: 0422: Philosophy

Identifier / keyword: Philosophy, religion and theology, Completeness, Kant, Mathematics, Metaphysics

Title: Speaking in circles: Completeness in Kant's metaphysics and mathematics

Number of pages: 251

Publication year: 2014

Degree date: 2014

School code: 0017

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321352610

Advisor: Kuehn, Manfred

**Committee member: Webb, Judson, Dahlstrom, Daniel, Hopp,
Walter, Roochnik, David**

University/institution: Boston University

Department: Arts and Sciences

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645851

ProQuest document ID: 1629018770

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018770?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 9 of 23

All at one point: The new physics of Italo Calvino and Jorge Luis Borges

Author: Rinaldi, Mark T.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629480770?accountid=14709>

Abstract: This work of comparative literary criticism focuses on the presence of mathematical and scientific concepts and imagery in the works of Italo Calvino and Jorge Luis Borges, beginning with an historical overview of scientific philosophy and an introduction to the most significant scientific concepts of the last several centuries, before shifting to deep, scientifically-driven analyses of numerous individual fictions, and finally concluding with a meditation on the unexpectedly fictive aspects of science and mathematics. The close readings of these authors' fictions are contextualized with thorough explanations of the potential literary implications of theories from physics, mathematics, neuroscience and chaos theory. While the mathematical studies highlight concepts such as "Zeno's Paradox," Cantorian set theory, and representations of numerical infinity, the discussions of physics isolate

theoretical structures such as black holes, parallel universes and quantum-entangled particles for use in discussing the fictions of both authors. Underlying the main goals of this work is an equal focus on the existence of an "ideal intellectual" or, more broadly, an ideal liberal arts education that draws together concepts from diverse and seemingly-unrelated fields of knowledge with the intention of generating unexpected and novel ideas and connections. By demonstrating the numerous appearances of scientific and mathematical imagery in the works of Calvino and Borges, this work emphasizes the shared fictive basis of all human knowledge and strives to set science and fiction alongside each other as equals in the hope of preserving the richness and diversity of intellectual enterprises.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Rinaldi%2C+Mark+T.&rft.aulast=Rinaldi&rft.aufirst=Mark&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321284225&rft.btitle=&rft.title=All+at+one+point%3A+The+new+physics+of+Italo+Calvino+and+Jorge+Luis+Borges&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Rinaldi%2C+Mark+T.&rft.aulast=Rinaldi&rft.aufirst=Mark&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321284225&rft.btitle=&rft.title=All+at+one+point%3A+The+new+physics+of+Italo+Calvino+and+Jorge+Luis+Borges&rft.issn=&rft_id=info:doi/

Subject: Comparative literature; Latin American literature; Romance literature; Philosophy of Science

Classification: 0295: Comparative literature; 0312: Latin American literature; 0313: Romance literature; 0402: Philosophy of Science

Identifier / keyword: Language, literature and linguistics, Philosophy, religion and theology, Borges, Calvino, Literary criticism, Literature, Mathematics, Physics

Title: All at one point: The new physics of Italo Calvino and Jorge Luis Borges

Number of pages: 223

Publication year: 2014

Degree date: 2014

School code: 0046

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321284225

Advisor: Lombardi, Giancarlo

**Committee member: Lombardi, Giancarlo, Calabritto,
Monica, Schwartz, Lia**

University/institution: City University of New York

Department: Comparative Literature

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3641903

ProQuest document ID: 1629480770

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629480770?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 10 of 23

The arts of the microbial world: Biosynthetic technologies in twentieth-century Japan

Author: Lee, Victoria

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622386199?accountid=14709>

Abstract: This dissertation explores how Japanese scientists and skilled workers sought to use microbes' natural processes to create new forms and products of life. Processes of microbial biosynthesis were ubiquitous in Japan, from miso-making in the kitchen, to soy-sauce mold starters and vitamins, and to monosodium glutamate and statins in which Japan led globally as an innovator and that scientists called "gifts from microorganisms." In traditional brewing houses and in the food, fine chemical and pharmaceutical industries across the country, scientists and

skilled workers came to study microbial life and to tinker with life as fermentation phenomena. Such practices destabilize our notions of life at the edge of our current knowledge. I trace the institutions and technologies of fermentation and look for points of connection from the turn of the twentieth century to the early 1960s. By focusing on a fermentation-based vision of life that took shape in Japan, I examine the role of cultural and technical continuities with the premodern period in sustaining Japan's technological breakthroughs in the global economy. This dissertation seeks to understand what it means to study modern science in a non-Western context. When we look through the eyes and hands of Japanese scientists and technologists, we see categories of investigation that were distinctive to that society and which owed their existence at least partly to premodern practices of fermentation. By focusing on the significance of knowledge within traditional and small-scale industries, this dissertation demonstrates that craft knowledge lay at the heart of Japanese scientific and technological contributions in the late twentieth century. The study also presents a view of how a non-Western society understood life as technological potentiality, focusing on what living things can do or be asked to do. It offers a historical point of comparison as scientists increasingly seek to know life by intervening in and recreating life, as notions of biological determinism soften with new awareness of interactions between ourselves, other organisms, and the environment, and as the microbial world takes a new centrality in debates on biotechnologies. Finally, this dissertation contributes to our understanding of

ecologies in Japanese cultural life, economic organization, and moral consciousness. Through an ecological vision of national self-sufficiency that dominated fermentation science, it explores how broader debates on environmental management impacted material culture at the level of food, resources, and medicine. Citation : Lee, Victoria. "The Arts of the Microbial World: Biosynthetic Technologies in Twentieth-Century Japan." Ph.D. diss, Princeton University, 2014.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Lee%2C+Victoria&rft.aulast=Lee&rft.aufirst=Victoria&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321287660&rft.btitle=&rft.title=The+arts+of+the+microbial+world%3A+Biosynthetic+technologies+in+twentieth-century+Japan&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&

**mp;rft.genre=dissertations+%26+theses&rft.jtitle=&am
p;rft.atitle=&rft.au=Lee%2C+Victoria&rft.aulast=Le
e&rft.aufirst=Victoria&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft
t.isbn=9781321287660&rft.btitle=&rft.title=The+art
s+of+the+microbial+world%3A+Biosynthetic+technologies+i
n+twentieth-
century+Japan&rft.issn=&rft_id=info:doi/**

Subject: History; Biomedical engineering; Science history

**Classification: 0332: History; 0541: Biomedical engineering;
0585: Science history**

**Identifier / keyword: Social sciences, Applied sciences,
Biosynthesis, Business, Ecologies, Microbes, Japan,
Science, Technology and craft**

**Title: The arts of the microbial world: Biosynthetic
technologies in twentieth-century Japan**

Number of pages: 261

Publication year: 2014

Degree date: 2014

School code: 0181

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321287660

Advisor: Creager, Angela N. H., Elman, Benjamin A.

Committee member: Marcon, Federico, Howell, David L.

University/institution: Princeton University

Department: History of Science

University location: United States -- New Jersey

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3642113

ProQuest document ID: 1622386199

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622386199?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 11 of 23

Essays on Biological Individuality

Author: Booth, Austin Greeley

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429020?accountid=14709>

Abstract: Much of biology, especially evolutionary theory, makes assumptions about the individuality of living things. A population, for example, is made up of individuals. Those individuals sometimes reproduce, creating new individuals. The very use of these concepts requires that living individuals can be distinguished both synchronically and diachronically. There are many examples in nature, however, in which a living system is present, but it is not clear how to understand that system's individuality. Plants, fungi, colonial marine invertebrates, insect colonies, and symbiosis are all classic cases that have puzzled biologists interested in understanding their population structure and evolution. Scientific exploration of these issues has connections with traditional philosophical terrain, particularly the ontology of persistence and the nature of individuality broadly construed. A biologically informed philosophical literature has arisen in recent years, aimed at understanding the nature of biological individuality and its

role in biological theorizing. My dissertation makes two kinds of contributions to this current literature. One contribution is theoretical, reframing our thinking about biological individuality. I distinguish between two categories of individuality and argue that they play different roles in theorizing about nature. One important kind of individual is that of the organism, understood as an entity that persists through space and time, takes in and processes resources from the environment, and maintains physiological autonomy. Another important kind of individual is that of the evolutionary individual, understood as an entity that has the capacity to participate in processes of natural selection. Distinguishing between these two types of individuality has theoretical utility, keeping clear the distinctive kinds of biological processes that individuals engage in. The other contribution of my dissertation involves detailed natural historical analysis of three kinds of problem cases. Using the framework articulated earlier in the dissertation, I assess the individuality of symbioses between larger organisms and their microbial associates, mushroom-producing fungi, and the classic case of ant colonies. The combined result of the assessments is a hierarchical pluralism about biological individuality.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&a

**mp;rft.genre=dissertations+%26+theses&rft.jtitle=&am
p;rft.atitle=&rft.au=Booth%2C+Austin+Greeley&rft.
aulast=Booth&rft.aufirst=Austin&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft.
t.isbn=9781321334302&rft.btitle=&rft.title=Essays
+on+Biological+Individuality&rft.issn=&rft_id=info:
doi/**

**http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z3
9.88-2004&ctx_enc=info:ofi/enc:UTF-
8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+
Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&a
mp;rft.genre=dissertations+%26+theses&rft.jtitle=&am
p;rft.atitle=&rft.au=Booth%2C+Austin+Greeley&rft.
aulast=Booth&rft.aufirst=Austin&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft.
t.isbn=9781321334302&rft.btitle=&rft.title=Essays
+on+Biological+Individuality&rft.issn=&rft_id=info:
doi/**

Subject: Philosophy of Science

Classification: 0402: Philosophy of Science

**Identifier / keyword: Philosophy, religion and theology,
Individuality, Organismality, Symbiosis**

Title: Essays on Biological Individuality

Number of pages: 112

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321334302

Advisor: Godfrey-Smith, Peter

Committee member: Hall, Edward, Pringle, Anne

University/institution: Harvard University

Department: Philosophy

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644961

ProQuest document ID: 1625429020

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429020?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 12 of 23

**Changing Climates: Deserts, Desiccation, and the Rise of
Climate Engineering 1870-1950**

Author: Lehmann, Philipp Nicolas

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429079?accountid=14709>

Abstract: This dissertation examines the impact of the nineteenth-century discussions about climate change and desiccation on large engineering projects in desert regions between 1870 and 1950. It demonstrates that the debate over the variability of global climatic conditions was a product of both internal academic and transnational political developments, and that the perceived threat of advancing desert conditions found a popular and technocratic

expression in climate engineering designs. Against the background of new theories about the earth's geological history, the development of academic geography, the travels of Sahara explorers, and imperialism in North Africa, European geographers and geologists initiated an enduring discussion on the origin of desert environments and the question of large-scale climatic changes in the recent past and present. Using a wide array of evidence ranging from cave paintings found in the interior Sahara and classical travel accounts to modern meteorological data, scientists debated whether North Africa, the entire continent, or even the whole world were undergoing desiccation. While the lack of a widely-accepted causal mechanism behind large climatic changes meant that the academic debate remained unresolved by the beginning of the twentieth century, images of progressing desert conditions had already left the confines of academia, heightening public anxiety over the possibility of future climatic catastrophes on a global scale. From the early stages of the nineteenth-century debate on climate change, fears of desiccation inspired scientists and engineers to come up with solutions to detrimental climatic shifts, whether these were viewed as man-made or natural. The resulting climate engineering projects were an expression of environmental pessimism paired with a powerful technological optimism. This was apparent in French and British schemes in the late nineteenth century that aimed to flood large parts of the Sahara and effect wide-ranging climatic changes; in the plan of a German architect to engineer a geographically and climatically transformed new Euro-African continent in the 1920s; and

eventually in Nazi designs to Germanize and green the "desertified" areas of Eastern Europe and Central Asia.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Lehmann%2C+Philipp+Nicolas&rft.aulast=Lehmann&rft.aufirst=Philipp&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334937&rft.btitle=&rft.title=Changing+Climates%3A+Deserts%2C+Desiccation%2C+and+the+Rise+of+Climate+Engineering+1870-1950&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Lehmann%2C+Philipp+Nicolas&rft.aulast=Lehmann&rft.aufirst=Philipp&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334937&rft.btitle=&rft.title=Changi

**ng+Climates%3A+Deserts%2C+Desiccation%2C+and+the+Ri
se+of+Climate+Engineering+1870-
1950&rft.issn=&rft_id=info:doi/**

**Subject: African Studies; Climate Change; North African
Studies; Science history; Environmental engineering**

**Classification: 0293: African Studies; 0404: Climate Change;
0560: North African Studies; 0585: Science history; 0775:
Environmental engineering**

**Identifier / keyword: Social sciences, Applied sciences,
Earth sciences, Climate, Climatology, Deserts, Engineering,
Environment, Sahara**

**Title: Changing Climates: Deserts, Desiccation, and the Rise
of Climate Engineering 1870-1950**

Number of pages: 453

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321334937

Advisor: Blackbourn, David

**Committee member: Rothschild, Emma G., Ritvo, Harriet,
Johnson, Alison F.**

University/institution: Harvard University

Department: History

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645018

ProQuest document ID: 1625429079

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429079?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 13 of 23

The garden politic: Botany, horticulture, and domestic cosmopolitanism in nineteenth-century American literature

Author: Kuhn, Mary P.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629019045?accountid=14709>

Abstract: My dissertation examines the political significance of nineteenth-century domestic literature by situating it within the overlapping cultural and scientific histories of plants. While scholars have largely understood the gardens and plants of nineteenth-century American literature as metaphors for and projections of human experience, I demonstrate the ways in which literary authors, like the cultures in which they wrote, understood plants to be distinct. The writers considered here--Lydia Maria Child, Nathaniel Hawthorne, Harriet Beecher Stowe, and Emily Dickinson--examine how botanical life challenged the categorical systems and geographical boundaries that organized political thought and practice. I read canonical literary texts alongside home garden manuals, horticultural club records, seed catalogs, herbariums, botany textbooks, and popular periodicals to reveal how the discursive and material practices of domestic horticulture prove to be surprisingly international in scope and political in nature. My

study is the first to offer a sustained examination of the way domestic writers invoked plant science and the language of grafting, transplanting, arranging, and weeding to engage central social issues of the century: imperialism, slavery, women's rights, and the democratic use of space. Chapter One explores how the idea of plant geography and transplantation fostered a nationalist discourse about plant origins. Focusing on writings across Lydia Maria Child's career, I argue for the central role plants play in her sentimental conception and eventual critique of American nationalism. Chapter Two shows how Hawthorne's understanding of botanical mobility--seedlings and soil whose circulation flouts national and legal boundaries--leads him to dismiss the idea of a civic identity grounded in personal property. Chapter Three demonstrates how Stowe comes to believe that biological diversity is necessary to America's democratic project. In attending to the ways that botanical science at mid-century celebrate ecological diversity, Stowe's second abolitionist novel, Dred, imagines a more racially diverse society than that envisioned in Uncle Tom's Cabin. In Chapter Four, Dickinson turns to theories of plant vitality and migration to critique a scientific method that set plants apart from humans, posing instead the possibility of a radical environmental ethic that accounts for plant rights.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kuhn%2C+Mary+P.&rft.aulast=Kuhn&rft.aufirst=Mary&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321352412&rft.btitle=&rft.title=The+garden+politic%3A+Botany%2C+horticulture%2C+and+domestic+cosmopolitanism+in+nineteenth-century+American+literature&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kuhn%2C+Mary+P.&rft.aulast=Kuhn&rft.aufirst=Mary&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321352412&rft.btitle=&rft.title=The+garden+politic%3A+Botany%2C+horticulture%2C+and+domestic+cosmopolitanism+in+nineteenth-century+American+literature&rft.issn=&rft_id=info:doi/

Subject: American literature

Classification: 0591: American literature

**Identifier / keyword: Language, literature and linguistics,
Horticulture, American literature, Botany**

**Title: The garden politic: Botany, horticulture, and domestic
cosmopolitanism in nineteenth-century American literature**

Number of pages: 211

Publication year: 2014

Degree date: 2014

School code: 0017

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321352412

Advisor: Lee, Maurice S., Korobkin, Laura H.

**Committee member: Henchman, Anna, Howell, William H.,
Rezek, Joseph**

University/institution: Boston University

Department: English

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645832

ProQuest document ID: 1629019045

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629019045?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 14 of 23

**Between the Arctic & the Adriatic: Polar Exploration,
Science & Empire in the Habsburg Monarchy**

Author: Walsh, Stephen Anthony

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428199?accountid=14709>

Abstract: Exploration was a defining aspect of how European societies encountered and established relations with the wider world. It set the stage for worldwide empires and laid the foundations for understandings of planetary existence. Exploration facilitated the exchange of commodities and ideas, the migration of peoples and the construction of scientific knowledge. This dissertation examines the nexus between ice and imperium through a study of how citizens of the Habsburg Monarchy contributed to polar exploration. In the long nineteenth century, the two main objects of European exploration were Africa and the polar regions. In the former, the dynamic between exploration and empire was fairly straightforward. But how did imperialism function in the frozen, uninhabited, latitudes of the world? This question becomes more problematic for the Habsburg Monarchy, a multinational polity with eleven officially recognized languages, and a self-professed empire that was the one European "Great Power" at the time without overseas colonies. This dissertation analyzes how the symbology and practice of polar exploration was used in the service of sundry--and frequently contradictory--political projects, including various nationalist activations, Habsburg loyalism, and the liberal politics of notables. The analysis incorporates a case study in the convoluted road between discovery and empire, Franz Josef Land, the northernmost terrain in Eurasia, discovered by an Austro-Hungarian expedition in 1873. This dissertation then traces fractures within the Austro-Hungarian culture of exploration, as explorer/scientists could reach little consensus on the goals

and practices for expeditions to the farthest latitudes of the globe. Finally, it examines how the rise of mass-data driven inductive sciences, such as geomagnetism, caused a fundamental redefinition in the practice of polar research toward a model of corporate, coordinated scientific effort and transnational cooperation. With the emergence of nation states and colonial empires, the basic frameworks of sovereignty, legitimacy and political meaning were changing and this study highlights how Habsburg subjects contributed to these modernization processes. In so doing, it brings to light neglected but lasting aspects of nineteenth century imperialism and treats both nationalism and empire as research problems rather than given ends.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Walsh%2C+Stephen+Anthony&rft.aulast=Walsh&rft.aufirst=Stephen&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321335637&rft.btitle=&rft.title=Between+the+Arctic+%26+the+Adriatic%3A+Polar+Exploration%2C+Science+%26+Empire+in+the+Habsburg+Monarchy&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Walsh%2C+Stephen+Anthony&rft.aulast=Walsh&rft.aufirst=Stephen&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321335637&rft.btitle=&rft.title=Between+the+Arctic+%26+the+Adriatic%3A+Polar+Exploration%2C+Science+%26+Empire+in+the+Habsburg+Monarchy&rft.issn=&rft_id=info:doi/

Subject: European history; Science history

Classification: 0335: European history; 0585: Science history

Identifier / keyword: Social sciences, Arctic, Austria, Exploration, Geography, Habsburg, Polar

Title: Between the Arctic & the Adriatic: Polar Exploration, Science & Empire in the Habsburg Monarchy

Number of pages: 415

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321335637

Advisor: Johnson, Alison F.

**Committee member: Blackburn, David, Armitage, David,
Wolff, Larry**

University/institution: Harvard University

Department: History

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645087

ProQuest document ID: 1625428199

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428199?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 15 of 23

Tabling Death: Life Insurance in Modern Japan, 1881-1945

Author: Moran, Ryan Marshall

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629063234?accountid=14709>

Abstract: This dissertation is a study of the history of the life insurance industry in modern Japan. Through the topic of life insurance, I analyze the objectification and quantification of life under capitalism and industrialization in modern Japan. Through life insurance, this study analyzes the process by which life became an isolated object that was simultaneously connected to the aggregate of society. Life insurance companies and executives, in fact, were among the first groups or individuals to use the term seimei, the modern Japanese term for life. I argue that the collection and organization of statistical data by insurance actuaries and state bureaucrats led to new ways of categorizing, governing and commodifying Japanese lives. These actors used mortality and health data to transform

lives into comparable and interchangeable individuated objects that they could simultaneously organize within newly defined social categories - including laborers, the old and women. This new mode of categorizing social relations helped organize and manage the various parts of the population and to transform life itself into a resource from which the state and private companies could expropriate value. The topic of life insurance, moreover, highlights the importance of activating consumer desire for the practice of interpellating the modern Japanese subject. The new biopolitical mode of governance, which had the mobilization of life at its center, could not simply operate through indoctrination and repression, but also needed to work through the individual as an autonomous, desiring subject trained in new modes of responsible conduct. In the individual chapters, I analyze a few of the most important possibilities unleashed by this shift - life as a scientifically constituted aggregate (chapter 1), life as object of social policy (chapter 2), life as part of the health of the nation (chapter 3), life as a deferred commodity in the 1920s and 1930s (chapter 4), and life as an economic and ideological wartime resource (chapter 5). The five chapters thus all bring attention to the myriad projects for which the state and insurance companies might utilize life in its form as a socially constituted commodity. The chapters, moreover, highlight the simultaneous role played by utopic hope and fear of uncertainty in inciting consumer desire for life as a commodity.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Moran%2C+Ryan+Marshall&rft.aulast=Moran&rft.aufirst=Ryan&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321323870&rft.btitle=&rft.title=Tabling+Death%3A+Life+Insurance+in+Modern+Japan%2C+1881-1945&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Moran%2C+Ryan+Marshall&rft.aulast=Moran&rft.aufirst=Ryan&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321323870&rft.btitle=&rft.title=Tabling+Death%3A+Life+Insurance+in+Modern+Japan%2C+1881-1945&rft.issn=&rft_id=info:doi/

Subject: History; Science history

Classification: 0332: History; 0585: Science history

Identifier / keyword: Social sciences, Daily life, Japan, Life insurance, Statistics, The consumer subject, The future

Title: Tabling Death: Life Insurance in Modern Japan, 1881-1945

Number of pages: 332

Publication year: 2014

Degree date: 2014

School code: 0033

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321323870

Advisor: Tanaka, Stefan, Fujitani, Takashi

Committee member: Gere, Catherina, Hankins, Joseph, Reid, Roddey

University/institution: University of California, San Diego

Department: History

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644284

ProQuest document ID: 1629063234

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629063234?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 16 of 23

**The National Character of Science: Statistics in modern
Japan**

Author: Winther, Jennifer Alcyon

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622145356?accountid=14709>

Abstract: To examine the relationship of ways of knowing with ways of governing, I examine the social and political development of Japanese statistics and find that science is not universal and objective, but profoundly local, shaped by the national cultures and histories in which it is institutionalized. The present research attempts to explain the rise of statistics as a diverse but integrated field of expertise shaped by the interactions of political discourse with the development of scientific ideas and the active development of institutional structures. Focusing on two periods of social transformation in Japan, I investigate two empirical questions: How did statisticians define their work intellectually in each period? With what strategies and in what organizational locations did statisticians institutionalize their specific forms of knowledge production? By investigating these two specific questions, I have tried to emphasize the process of developing statistical ideas themselves in particular contexts rather than treat statistics as a universally defined body of knowledge that develops universally in any social environment. Data for my analyses consists of a variety of primary material in Japanese, translated by the author, ranging from original publications of scholarly debates in the late nineteenth century compiled by the Central Statistics Bureau, government reports, historical documents from professional associations and state agencies, and a set of interview transcripts from the postwar period. I also bring together scholarly studies heretofore separated by disciplinary boundaries of management studies, history, sociology, and Asian studies. Drawing largely on Foucaultian

ideas of techniques of power, and further specifying Bourdeusian field theory to account for the unique position of statistics among professions more closely tied to the political rather than the economic sphere, I demonstrate how the development of statistics in Japan relied more on political capital, thus institutionalizing scientific and political authority in specific ways.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Winther%2C+Jennifer+Alcyon&rft.aulast=Winther&rft.aufirst=Jennifer&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321295139&rft.btitle=&rft.title=The+National+Character+of+Science%3A+Statistics+in+modern+Japan&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Winther%2C+Jennifer+Alcyon&rft.aulast=Winther&rft.aufirst=Jennifer&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321295139&rft.btitle=&rft.title=The+National+Character+of+Science%3A+Statistics+in+modern+Japan&rft.issn=&rft_id=info:doi/

rft.aulast=Winther&rft.aufirst=Jennifer&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321295139&rft.btitle=&rft.title=The+National+Character+of+Science%3A+Statistics+in+modern+Japan&rft.issn=&rft_id=info:doi/

Subject: Asian Studies; Sociology

Classification: 0342: Asian Studies; 0626: Sociology

Identifier / keyword: Social sciences, Expertise, Government, Japan, Knowledge, Science, Statistics

Title: The National Character of Science: Statistics in modern Japan

Number of pages: 103

Publication year: 2014

Degree date: 2014

School code: 0031

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321295139

Advisor: Roy, William G.

Committee member: Timmermans, Stefan, Ortiz, Vilma

University/institution: University of California, Los Angeles

Department: Sociology 0867

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3642541

ProQuest document ID: 1622145356

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622145356?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 17 of 23

**Image objects: An archaeology of 3D computer graphics,
1965-1979**

Author: Gaboury, Jacob

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

Abstract: Image Objects: An Archaeology of 3D Computer Graphics, 1965-1979 explores the early history of 3D computer graphics and visualization with a focus on the pioneering research center at the University of Utah. The University of Utah is one of the most significant sites in the history of computing, but has been largely neglected by historians and digital media scholars alike. From 1965-1979 almost all fundamental principals of modern computer graphics were developed by Utah graduates and faculty, many of whom went on to found some of the most important research and technical organizations of the past fifty years, including Adobe, Pixar, Netscape, and Atari. The project begins with this history, but looks to pull apart familiar narratives of invention and innovation by engaging the challenges and failures of early research into computer visualization. As such the project is organized around a set of technical and cultural objects of particular significance to the early history of graphics. Chapter One introduces the project and its research site and the University of Utah, discussing methods, archives, and the history of the Utah

program. Chapter Two offers a meditation on questions of vision and visibility, structured around the development of the "hidden surface algorithm" for graphical display from 1965-1969. Chapter Three offers an analysis of memory and materiality through the lens of early graphics hardware, with a focus on the development of the first commercial framebuffer in 1973. Chapter Four investigates objects and ontology through an analysis of the "Utah Teapot", a famous graphical object standard developed in 1974 and used widely in contemporary software, film, and research demonstrations. Finally, Chapter Five offers an analysis of language and text through an exploration of the object-oriented paradigm first conceived by Alan Kay at the University of Utah. By looking to the first moments in which visual computing is made possible this project critiques popular narratives that view the digital image as an extension of earlier visual forms, arguing instead that the development of 3D interactive graphics marks the moment at which computer science develops a concern for ontology and the simulation of objects in the world. Ultimately the project seeks to make the familiar strange, offering a theory of the digital image that refuses a genealogy of the visible.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&

p;rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

Subject: Communication; Science history; Film studies

Classification: 0459: Communication; 0585: Science history; 0900: Film studies

Identifier / keyword: Social sciences, Communication and the arts, 3 dimensional, Computer graphics, Graphics, History, Media archaeology, Utah

Title: Image objects: An archaeology of 3D computer graphics, 1965-1979

Number of pages: 271

Publication year: 2014

Degree date: 2014

School code: 0146

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321302868

Advisor: Galloway, Alexander

Committee member: Gitelman, Lisa, Lenoir, Timothy, Robles-Anderson, Erica, Parikka, Jussi

University/institution: New York University

Department: Media, Culture, and Communication

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3643021

ProQuest document ID: 1635305045

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 18 of 23

Universal Biology

Author: Mariscal, Carlos

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629048309?accountid=14709>

Abstract: Our only example of life is that of Earth- which is a single lineage. We know very little about what life would look like if we found evidence of a second origin. Yet there are some universal features of geometry, mechanics, and

chemistry that have predictable biological consequences. The surface-to-volume ratio property of geometry, for example, places a maximum limit on the size of unassisted cells in a given environment. This effect is universal, interesting, not vague, and not arbitrary. Furthermore, there are some problems in the universe that life must invariably solve if it is to persist, such as resistance to radiation, faithful inheritance, and resistance to environmental pressures. At least with respect to these universal problems, some solutions must consistently emerge. In this dissertation, I develop and defend my own account of universal biology, the study of non-vague, non-arbitrary, non-accidental, universal generalizations in biology. In my account, a candidate biological generalization is assessed in terms of the assumptions it makes. A successful claim is accepted only if its justification necessarily makes reference to principles of evolution and makes no reference to contingent facts of life on Earth. In this way, we can assess the robustness with which generalizations can be expected to hold. I contend that using a stringent-enough causal analysis, we are able to gather insight into the nature of life everywhere. Life on Earth may be our single example of life, but this is merely a reason to be cautious in our approach to life in the universe, not a reason to give up altogether.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Mariscal%2C+Carlos&rft.aulast=Mariscal&rft.aufirst=Carlos&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321324907&rft.btitle=&rft.title=Universal+Biology&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Mariscal%2C+Carlos&rft.aulast=Mariscal&rft.aufirst=Carlos&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321324907&rft.btitle=&rft.title=Universal+Biology&rft.issn=&rft_id=info:doi/

Subject: Molecular biology; Evolution and Development; Philosophy

Classification: 0307: Molecular biology; 0412: Evolution and Development; 0422: Philosophy

Identifier / keyword: Philosophy, religion and theology, Biological sciences, Biological laws, Definition of life, Evolutionary contingency, Evolutionary systems, Robustness, Universal biology

Title: Universal Biology

Number of pages: 257

Publication year: 2014

Degree date: 2014

School code: 0066

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321324907

Advisor: Brandon, Robert, Rosenberg, Alex

University/institution: Duke University

Department: Philosophy

University location: United States -- North Carolina

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644335

ProQuest document ID: 1629048309

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629048309?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 19 of 23

**Science of sleep: Tracing the visual language of dreams
from Fuseli to Gondry**

Author: McClellan, Bethany

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1490996457?accountid=14709>

**Abstract: Periods of intense visual and scientific exploration
of dreams include the late eighteenth and early nineteenth-
century Romantic movement, the early twentieth-century**

publication of Sigmund Freud's Interpretation of Dreams and corresponding Surrealist movement, and the contemporary era. Primary themes established by Romantic scholars and artists and expanded upon by Freud and the Surrealists resonate in contemporary dream theory and visual art. These themes include: an interest in the relationship between the dreaming mind and the creative process, childhood cognition, perceptual effects of visual art, the purpose and function of dreams, and the associational abilities of the dreaming mind. Using Michel Gondry's 2006 film The Science of Sleep and corresponding gallery exhibition as a platform for investigating contemporary trends merging art and neuroscience, this thesis illustrates how scientific resources like brain imaging technology, contemporary dream theory, and the emerging practice of sleep medicine can support and enhance artistic and scholarly approaches. Contextualizing Gondry's work within a network of contemporary artists interested in creating scientifically-informed work based on dreams illuminates emerging themes, such as: an emphasis on viewer participation, utilizing tactile media to evoke the oneiric experience, and cross-disciplinary collaboration. By tracing historical periods of heightened interest in the unconscious, this thesis provides a comprehensive understanding of how these periods formed the artistic representation of dreams and contributed to brain science. Applying neuroscience and contemporary dream theory to the critical consideration of the work of Gondry and his contemporaries represents a new approach to scholarship on dreams and underscores the mutual benefits of merging art and science. This cross-

disciplinary approach to understanding and visually interpreting the inner mind enhances the understanding of one of the greatest mysteries of science, illuminating many cultural, medical, and scientific endeavors.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=McClellan%2C+Bethany&rft.aulast=McClellan&rft.aufirst=Bethany&rft.date=2013-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781303622151&rft.btitle=&rft.title=Science+of+sleep%3A+Tracing+the+visual+language+of+dreams+from+Fuseli+to+Gondry&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=McClellan%2C+Bethany&rft.aulast=McClellan&rft.aufirst=Bethany&rft.date=2013-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781303622151&rft.btitle=&rft.title=Science+of+sleep%3A+Tracing+the+visual+language+of+dreams+from+Fuseli+to+Gondry&rft.issn=&rft_id=info:doi/

t.isbn=9781303622151&rft.btitle=&rft.title=Science+of+sleep%3A+Tracing+the+visual+language+of+dreams+from+Fuseli+to+Gondry&rft.issn=&rft_id=info:doi/

Subject: Neurosciences; Art history; Film studies

Classification: 0317: Neurosciences; 0377: Art history; 0900: Film studies

Identifier / keyword: Communication and the arts, Biological sciences, Brain science, Creativity, Dreams, Film, Perception, Gondry, Michel, Fuseli, Henry

Title: Science of sleep: Tracing the visual language of dreams from Fuseli to Gondry

Number of pages: 166

Publication year: 2013

Degree date: 2013

School code: 0005

Source: MAI 52/04(E), Aug 2014

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781303622151

Advisor: McPherson, Heather

Committee member: Cummings, Cathleen, Nancarrow, Mindy

**University/institution: The University of Alabama at
Birmingham**

Department: Arts & Humanities

University location: United States -- Alabama

Degree: M.A.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 1549640

ProQuest document ID: 1490996457

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1490996457?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2013**

Database: ProQuest Dissertations & Theses Global

Document 20 of 23

An evaluation of the Brazilian policies for science and technology in the light of theories of development: 1960-1985 period

Author: Vieira, Francisco Afonso Evangelista

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652850594?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Vieira%2C+Francisco+Afonso+Evangelista&rft.aulast=Vieira&rft.aufirst=Francisco+Afonso&rft.date=1990-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=An+evaluation+of+the+Brazilian+policies+for+science+and+technology+in+the+light+of+theories+of+development%3A+1960-1985+period&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Vieira%2C+Francisco+Afonso+Evan gelista&rft.aulast=Vieira&rft.aufirst=Francisco+Afonso&rft.date=1990-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=An+evaluation+of+the+Brazilian+policies+for+science+and+technology+in+the+light+of+theories+of+development%3A+1960-1985+period&rft.issn=&rft_id=info:doi/

Subject: Latin American Studies; Public policy

Classification: 0550: Latin American Studies; 0630: Public policy

Identifier / keyword: Social sciences, Brazil

Title: An evaluation of the Brazilian policies for science and technology in the light of theories of development: 1960-1985 period

Number of pages: 256

Publication year: 1990

Degree date: 1990

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31275

ProQuest document ID: 1652850594

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652850594?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
1990**

Database: ProQuest Dissertations & Theses Global

Document 21 of 23

**The changing role of scientists and technologists in defense
policy creation**

Author: Kanauka, Algirdas Vincas

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652842073?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kanauka%2C+Algirdas+Vincas&rft.aulast=Kanauka&rft.aufirst=Algirdas&rft.date=1988-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=The+changing+role+of+scientists+and+technologists+in+defense+policy+creation&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kanauka%2C+Algirdas+Vincas&

;rft.aulast=Kanauka&rft.aufirst=Algirdas&rft.date=1988-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=The+changing+role+of+scientists+and+technologists+in+defense+policy+creation&rft.issn=&rft_id=info:doi/

Subject: Public policy; Military studies

Classification: 0630: Public policy; 0750: Military studies

Identifier / keyword: Social sciences

Title: The changing role of scientists and technologists in defense policy creation

Number of pages: 210

Publication year: 1988

Degree date: 1988

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: D.P.A.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31208

ProQuest document ID: 1652842073

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652842073?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
1988**

Database: ProQuest Dissertations & Theses Global

Document 22 of 23

**THE EMERGENCE OF NEW COMPETITION IN THE AMERICAN
PETROLEUM INDUSTRY BEFORE 1911**

Author: Andreano, Ralph Louis

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/301857172?accountid=14709>

Abstract: None available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Andreano%2C+Ralph+Louis&rft.aulast=Andreano&rft.aufirst=Ralph&rft.date=1960-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=THE+EMERGENCE+OF+NEW+COMPETITION+IN+THE+AMERICAN+PETROLEUM+INDUSTRY+BEFORE+1911&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Andreano%2C+Ralph+Louis&rft.aulast=Andreano&rft.aufirst=Ralph&rft.date=1960-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=THE+EMERGENCE+OF+NEW+COMPETITION+IN+THE+AMERICAN+PETROLEUM+INDUSTRY+BEFORE+1911&rft.issn=&rft_id=info:doi/

Subject: Economic history; Energy

Classification: 0509: Economic history; 0791: Energy

Identifier / keyword: Social sciences, Applied sciences

**Title: THE EMERGENCE OF NEW COMPETITION IN THE
AMERICAN PETROLEUM INDUSTRY BEFORE 1911**

Pages: 429 p.

Number of pages: 429

Publication year: 1960

Degree date: 1960

School code: 0163

Source: DAI 21/09, p. 2524, Mar 1961

Place of publication: Ann Arbor

Country of publication: United States

University/institution: Northwestern University

University location: United States -- Illinois

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 6006530

ProQuest document ID: 301857172

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/301857172?accountid=14709>

Copyright: Copyright UMI - Dissertations Publishing 1960

Database: ProQuest Dissertations & Theses Global

Document 23 of 23

Sociological thought of Leonard T. Hobhouse

Author: Owen, John E.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1655602018?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Owen%2C+John+E.&rft.aulast=

Owen&rft.aufirst=John&rft.date=1949-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=Sociological+thought+of+Leonard+T.+Hobhouse&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Owen%2C+John+E.&rft.aulast=Owen&rft.aufirst=John&rft.date=1949-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=Sociological+thought+of+Leonard+T.+Hobhouse&rft.issn=&rft_id=info:doi/

Subject: Social research

Classification: 0344: Social research

Identifier / keyword: Social sciences

Title: Sociological thought of Leonard T. Hobhouse

Number of pages: 380

Publication year: 1949

Degree date: 1949

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31705

ProQuest document ID: 1655602018

Table of contents

1. Cotton, fire, and dreams: The Robert Findlay iron works and heavy industry in Macon, Georgia, 1839-1912

Document 1 of 1

Cotton, fire, and dreams: The Robert Findlay iron works and heavy industry in Macon, Georgia, 1839-1912

Author: Davis, Robert Scott, Jr

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/304237059?accountid=14709>

Abstract: The slavery-based plantation economy of the Old South depended upon the technical progress of the era to survive and prosper. However, at the same time, many southerners opposed industrialization as northern, potentially abolitionist, and a threat to southern society. Scottish-born but northern-trained Robert Findlay (1808-1859) became one of the few genuinely successful industrialists of the Old South by taking advantage of the market for agricultural technology while ingratiating himself into the society of his adopted home of Macon, Georgia. Macon served as one of the South's few machinery manufacturing cities and became the center of the South's largest railroad and river transportation network. Findlay found ways of surviving and prospering despite the economic and political controversies of the Deep South from 1836-1859. After his death, his foundry became the main installation of the Confederacy's Macon Arsenal, only to succumb to the post work economic pressures on the southern states. This thesis also discusses foundry work before the Civil War; the early history of Macon, Georgia; the Monroe Railroad; and first major manufacturing in Georgia.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Davis%2C+Robert+Scott%2C+Jr&rft.aulast=Davis&rft.aufirst=Robert&rft.date=1996-01-

01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9780591227185&rft.btitle=&rft.title=Cotton%2C+fire%2C+and+dreams%3A+The+Robert+Findlay+iron+works+and+heavy+industry+in+Macon%2C+Georgia%2C+1839-1912&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Davis%2C+Robert+Scott%2C+Jr&rft.aulast=Davis&rft.aufirst=Robert&rft.date=1996-01-

01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9780591227185&rft.btitle=&rft.title=Cotton%2C+fire%2C+and+dreams%3A+The+Robert+Findlay+iron+works+and+heavy+industry+in+Macon%2C+Georgia%2C+1839-1912&rft.issn=&rft_id=info:doi/

Subject: American history; Agricultural engineering; Labor relations; Steel industry; Studies

Classification: 0337: American history; 0539: Agricultural engineering; 0629: Labor relations

Identifier / keyword: Social sciences, Applied sciences

Title: Cotton, fire, and dreams: The Robert Findlay iron works and heavy industry in Macon, Georgia, 1839-1912

Pages: 241 p.

Number of pages: 241

Publication year: 1996

Degree date: 1996

School code: 0005

Source: MAI 35/03, p. 694, Jun 1997

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9780591227185, 0591227185

Advisor: Doss, Harriet Amos

**University/institution: The University of Alabama at
Birmingham**

University location: United States -- Alabama

Degree: M.A.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 1382739

ProQuest document ID: 304237059

Table of contents

1. Image objects: An archaeology of 3D computer graphics, 1965-1979

2. Research and Racial Hierarchy Creation: A Return to Scientific Racism

3. Origins and interpretations of selected sociological concepts of Max Weber

Document 1 of 3

Image objects: An archaeology of 3D computer graphics, 1965-1979

Author: Gaboury, Jacob

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

Abstract: Image Objects: An Archaeology of 3D Computer Graphics, 1965-1979 explores the early history of 3D computer graphics and visualization with a focus on the pioneering research center at the University of Utah. The University of Utah is one of the most significant sites in the history of computing, but has been largely neglected by historians and digital media scholars alike. From 1965-1979 almost all fundamental principals of modern computer graphics were developed by Utah graduates and faculty, many of whom went on to found some of the most important research and technical organizations of the past fifty years, including Adobe, Pixar, Netscape, and Atari. The project begins with this history, but looks to pull apart familiar narratives of invention and innovation by engaging the challenges and failures of early research into computer visualization. As such the project is organized around a set of technical and cultural objects of particular significance to the early history of graphics. Chapter One introduces the project and its research site and the University of Utah, discussing methods, archives, and the history of the Utah program. Chapter Two offers a meditation on questions of vision and visibility, structured around the development of the "hidden surface algorithm" for graphical display from 1965-1969. Chapter Three offers an analysis of memory and materiality through the lens of early graphics hardware, with a focus on the development of the first commercial

framebuffer in 1973. Chapter Four investigates objects and ontology through an analysis of the "Utah Teapot", a famous graphical object standard developed in 1974 and used widely in contemporary software, film, and research demonstrations. Finally, Chapter Five offers an analysis of language and text through an exploration of the object-oriented paradigm first conceived by Alan Kay at the University of Utah. By looking to the first moments in which visual computing is made possible this project critiques popular narratives that view the digital image as an extension of earlier visual forms, arguing instead that the development of 3D interactive graphics marks the moment at which computer science develops a concern for ontology and the simulation of objects in the world. Ultimately the project seeks to make the familiar strange, offering a theory of the digital image that refuses a genealogy of the visible.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

Subject: Communication; Science history; Film studies

Classification: 0459: Communication; 0585: Science history; 0900: Film studies

Identifier / keyword: Social sciences, Communication and the arts, 3 dimensional, Computer graphics, Graphics, History, Media archaeology, Utah

Title: Image objects: An archaeology of 3D computer graphics, 1965-1979

Number of pages: 271

Publication year: 2014

Degree date: 2014

School code: 0146

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321302868

Advisor: Galloway, Alexander

Committee member: Gitelman, Lisa, Lenoir, Timothy, Robles-Anderson, Erica, Parikka, Jussi

University/institution: New York University

Department: Media, Culture, and Communication

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3643021

ProQuest document ID: 1635305045

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 2 of 3

Research and Racial Hierarchy Creation: A Return to Scientific Racism

Author: Love, James William

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636504725?accountid=14709>

Abstract: The racial bias embedded in scientific inquiry is a seldom explored topic; however, this project employed a qualitative coding methodology to develop themes reflective of racism in three areas of scientific inquiry: Biomedical, Behavioral, and Social. The results of this analysis reveal racial hierarchy creation remains an ever-present feature of scientific inquiry, although taking a more subtle and hidden form. This racism is primarily evident through the use of race as an etiological variable and attempts to indict "cultural differences" as justification for differences. This study reveals that despite being educated analysts, the

work of scholars and scientists alike is largely a reflection of the racist society in which they are embedded.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Love%2C+James+William&rft.aulast=Love&rft.aufirst=James&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321320152&rft.btitle=&rft.title=Research+and+Racial+Hierarchy+Creation%3A+A+Return+to+Scientific+Racism&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Love%2C+James+William&rft.aulast=Love&rft.aufirst=James&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321320152&rft.btitle=&rft.title=Research+and+Racial+Hierarchy+Creation%3A+A+Return+to+Scientific+Racism&rft.issn=&rft_id=info:doi/

Subject: Demography

Classification: 0938: Demography

Identifier / keyword: Social sciences, Color blind racism, Institutional discrimination, Race, Science and race

Title: Research and Racial Hierarchy Creation: A Return to Scientific Racism

Number of pages: 121

Publication year: 2014

Degree date: 2014

School code: 0032

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321320152

Advisor: Kposowa, Augustine

Committee member: Chase-Dunn, Christopher, Guenther, Katja

University/institution: University of California, Riverside

Department: Sociology

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3643984

ProQuest document ID: 1636504725

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636504725?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 3 of 3

**Origins and interpretations of selected sociological
concepts of Max Weber**

Author: Nahrendorf, Richard Otto

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1655602543?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Nahrendorf%2C+Richard+Otto&rft.aulast=Nahrendorf&rft.aufirst=Richard&rft.date=1948-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=Origins+and+interpretations+of+selected+sociological+concepts+of+Max+Weber&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Nahrendorf%2C+Richard+Otto&rft.aulast=Nahrendorf&rft.aufirst=Richard&rft.date=1948-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=Origins+and+interpretations+of+selected+sociological+concepts+of+Max+Weber&rft.issn=&rft_id=info:doi/

t.isbn=&rft.btitle=&rft.title=Origins+and+interpretations+of+selected+sociological+concepts+of+Max+Weber∓rft.issn=&rft_id=info:doi/

Subject: Social research

Classification: 0344: Social research

Identifier / keyword: Social sciences

Title: Origins and interpretations of selected sociological concepts of Max Weber

Number of pages: 398

Publication year: 1948

Degree date: 1948

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31703

ProQuest document ID: 1655602543

Table of contents

1. Mechanism and chance: Toward an account of stochastic mechanism for the life science

2. The Self-Body Problem in Descartes and Malebranche

3. Visualizing the irradiated body and radioactive landscape in American art, 1945-1976

4. The a priori nature of the political: Democracy and scientific method in Thomas Hobbes

5. Modular Theory and Spacetime Structure in QFT

6. The Cognitive Neuroscience of Mathematics: Tuning Up the Number System

7. The Fate of Invention in Late 19th Century French Literature

8. Speaking in circles: Completeness in Kant's metaphysics and mathematics

9. All at one point: The new physics of Italo Calvino and Jorge Luis Borges

10. The arts of the microbial world: Biosynthetic technologies in twentieth-century Japan

11. Essays on Biological Individuality

12. Changing Climates: Deserts, Desiccation, and the Rise of Climate Engineering 1870-1950

13. The garden politic: Botany, horticulture, and domestic cosmopolitanism in nineteenth-century American literature

14. Between the Arctic & the Adriatic: Polar Exploration, Science & Empire in the Habsburg Monarchy

15. Tabling Death: Life Insurance in Modern Japan, 1881-1945

16. The National Character of Science: Statistics in modern Japan

17. Image objects: An archaeology of 3D computer graphics, 1965-1979

18. Universal Biology

19. Science of sleep: Tracing the visual language of dreams from Fuseli to Gondry

20. An evaluation of the Brazilian policies for science and technology in the light of theories of development: 1960-1985 period

21. The changing role of scientists and technologists in defense policy creation

22. THE EMERGENCE OF NEW COMPETITION IN THE AMERICAN PETROLEUM INDUSTRY BEFORE 1911

23. Sociological thought of Leonard T. Hobhouse

Mechanism and chance: Toward an account of stochastic mechanism for the life science

Author: DesAutels, Lane

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636505532?accountid=14709>

Abstract: In this dissertation, my aim is to develop some important new resources for explaining probabilistic phenomena in the life sciences. In short, I undertake to articulate and defend a novel account of stochastic mechanism for grounding probabilistic generalizations in the life sciences . To do this, I first offer some brief remarks on the concept of mechanism in the history of philosophical thought. I then lay out some examples of probabilistic phenomena in biology for which an account of stochastic mechanism seems explanatorily necessary and useful: synaptic transmission in the brain, protein synthesis, DNA replication, evolution by natural selection, and Mendelian inheritance. Next, I carefully examine the concept of regularity as it applies to mechanisms--building on a recent taxonomy of the ways mechanisms may (or may not) be thought to behave regularly. I then employ this taxonomy to sort out a recent debate in the philosophy of biology: is natural selection regular enough to count as a mechanism? I argue that, by paying attention to the forgoing taxonomy, natural selection can be seen to meet the regularity

requirement just fine. I then turn my attention to the question of how we should understand the chance we ascribe to stochastic mechanisms. To do this, I form a list of desiderata that any account of stochastic mechanism must meet. I then explore how mechanisms fit with several of the going philosophical accounts of chance: subjectivism, frequentism (both actual and hypothetical), Lewisian best-systems, and propensity. I argue that neither subjectivism, frequentism, nor best-system-style accounts of chance will meet all of the proposed desiderata, but some version of propensity theory can. Borrowing from recent propensity accounts of biological fitness and drift, I then go on to explore the prospects for developing a propensity interpretation of stochastic mechanism (PrISM) according to which propensities are (i) metaphysically analyzable and operationally quantifiable via a function of probability-weighted ways a mechanism might fire and (ii) not causally efficacious but nonetheless explanatorily useful. By appealing to recent analyses of deterministic and emergent chance, I argue further that this analysis need not be vulnerable to the threat of metaphysical determinism.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=DesAutels%2C+Lane&rft.aulast

=DesAutels&rft.aufirst=Lane&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321321463&rft.btitle=&rft.title=Mechanism+and+chance%3A+Toward+an+account+of+stochastic+mechanism+for+the+life+science&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=DesAutels%2C+Lane&rft.aulast=DesAutels&rft.aufirst=Lane&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321321463&rft.btitle=&rft.title=Mechanism+and+chance%3A+Toward+an+account+of+stochastic+mechanism+for+the+life+science&rft.issn=&rft_id=info:doi/

Subject: Philosophy of Science

Classification: 0402: Philosophy of Science

Identifier / keyword: Philosophy, religion and theology, Life sciences, Biology, Chance, Mechanism, Probability, Stochastic

Title: Mechanism and chance: Toward an account of stochastic mechanism for the life science

Number of pages: 218

Publication year: 2014

Degree date: 2014

School code: 0117

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321321463

Advisor: Darden, Lindley

Committee member: Lyon, Aidan, Frisch, Mathias, Pfeifer, Jessica, Carruthers, Peter

University/institution: University of Maryland, College Park

Department: Philosophy

University location: United States -- Maryland

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644095

ProQuest document ID: 1636505532

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636505532?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 2 of 23

The Self-Body Problem in Descartes and Malebranche

Author: Chamberlain, Colin William

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428905?accountid=14709>

Abstract: Descartes and Malebranche often seem to argue that the self (or I) is identical to an immaterial thinking substance distinct from the body. But there are also many passages where they insist that the body is part of the self.

This means that Descartes and Malebranche have a problem, since they seem to endorse three mutually inconsistent propositions: (1) I am an immaterial thinking thing. (2) Immaterial things don't have bodily parts. (3) I include my body as part of myself. I call this puzzle the self-body problem. It is a problem about understanding how we--the immaterial thinking subjects who engage in the self-reflective project of the Meditations --can incorporate our bodies into ourselves. I argue that Descartes and Malebranche have an elegant solution to this inconsistency. On my interpretation, the Cartesian self is not identical to an immaterial thinking substance. Rather, the Cartesian self is a variably constituted being that has different parts at different times and in different possible situations. Sometimes the self exists with both an immaterial thinking part and a bodily part. Other times it exists with only an immaterial part. The immaterial part is essential to the self, the bodily part is not. When Descartes and Malebranche say that I am immaterial, what they really mean is that I essentially have an immaterial part. But that is consistent with the claim that my body is part of myself.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Chamberlain%2C+Colin+William&am

p;rft.aulast=Chamberlain&rft.aufirst=Colin&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334371&rft.btitle=&rft.title=The+Self-Body+Problem+in+Descartes+and+Malebranche&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Chamberlain%2C+Colin+William&rft.aulast=Chamberlain&rft.aufirst=Colin&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334371&rft.btitle=&rft.title=The+Self-Body+Problem+in+Descartes+and+Malebranche&rft.issn=&rft_id=info:doi/

Subject: Philosophy

Classification: 0422: Philosophy

Identifier / keyword: Philosophy, religion and theology, Descartes, rene, Early modern, Embodiment, Malebranche, nicolas, Mind-body union, Self

Title: The Self-Body Problem in Descartes and Malebranche

Number of pages: 155

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321334371

Advisor: Simmons, Alison J.

Committee member: McDonough, Jeffrey, Newlands, Samuel

University/institution: Harvard University

Department: Philosophy

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644967

ProQuest document ID: 1625428905

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428905?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 3 of 23

**Visualizing the irradiated body and radioactive landscape in
American art, 1945-1976**

Author: Orgeman, Keely

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018773?accountid=14709>

**Abstract: Looking beyond mushroom-cloud imagery, this
dissertation investigates the greater effect that radiation
science had on intellectually and imaginatively stimulating**

the visual artists László Moholy-Nagy, Ralston Crawford, Ben Shahn, and Bruce Conner, who sought knowledge of the long-range consequences of nuclear testing. Primarily concerned with the specter of the tests' aftermath rather than the spectacle of the explosions themselves, these artists explored the toxicity of radiation and ultimately discovered, I argue, that they lived in perpetual and uneasy co-existence with their subject. This study chronologically follows the course of scientific inquiry into radiological effects, from the Second World War to the height of the Cold War, beginning in the first chapter with a discussion of the role of nuclear medicine in the work of Moholy-Nagy. In postwar Chicago, he developed his earlier engagement with x-ray photographs into a deeper knowledge of atomic processes, which culminated in two paintings that suggest the healing and hazardous effects of nuclear energy. The second chapter considers Crawford's commission by Fortune magazine in 1946 to illustrate an atom-bomb test in the Pacific, for which he made several renderings based on post-blast meteorological and radiological data. The critical response to these works exposed not only the public's lack of understanding about the invisible phenomena of the bomb, but also Crawford's own loose grasp of the pertinent science. Continuing the focus on newsworthy nuclear events, the third chapter examines Shahn's portraits of J. Robert Oppenheimer, following the latter's official censure by the Atomic Energy Commission in 1954, and Shahn's paintings and drawings about a contemporaneous fallout disaster leading to the death of a Japanese fisherman. Both series link the heedless actions of scientists and their

government employers to the rise of universal radiation sickness, precipitated by what Shahn perceived as mass dehumanization. The fourth and final chapter addresses Conner's long-held view that San Francisco, the city in which he lived, was radioactively contaminated and a potential target of nuclear attack. Through the representation of self-destruction in his assemblages and films, Conner mimed a cultural malaise that struck him as particularly rampant in the local environment of nuclear experimentation.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Orgeman%2C+Keely&rft.aulast=Orgeman&rft.aufirst=Keely&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321352580&rft.btitle=&rft.title=Visualizing+the+irradiated+body+and+radioactive+landscape+in+American+art%2C+1945-1976&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+

**Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&am
p;rft.genre=dissertations+%26+theses&rft.jtitle=&am
p;rft.atitle=&rft.au=Orgeman%2C+Keely&rft.aulast
=Orgeman&rft.aufirst=Keely&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft
t.isbn=9781321352580&rft.btitle=&rft.title=Visualiz
ing+the+irradiated+body+and+radioactive+landscape+in+Am
erican+art%2C+1945-
1976&rft.issn=&rft_id=info:doi/**

Subject: Art history

Classification: 0377: Art history

**Identifier / keyword: Communication and the arts, American
art, Radioactive landscape, Visual artists**

**Title: Visualizing the irradiated body and radioactive
landscape in American art, 1945-1976**

Number of pages: 352

Publication year: 2014

Degree date: 2014

School code: 0017

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321352580

Advisor: Hills, Patricia

**Committee member: Williams, Gregory, Sichel, Kim, Morgan,
Keith, Grundmann, Roy**

University/institution: Boston University

Department: History of Art and Architecture

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645848

ProQuest document ID: 1629018773

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018773?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 4 of 23

The a priori nature of the political: Democracy and scientific method in Thomas Hobbes

Author: Craig, Patrick

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1639618933?accountid=14709>

Abstract: My dissertation provides a treatment of Hobbes's politics in light of his conception of scientific method. The scholarship devoted to these two components of Hobbes's thought, that is his account of scientific method and his political philosophy, have largely existed in isolation from one another. Reading his politics through the lens of his account of scientific method, I bring two bodies of research on Hobbes together, and in so doing, offer a unique account of his political philosophy. When Hobbes's political philosophy is approached in the way I suggest, what one finds is not a simple defense of authoritarian absolutism, but instead a much more progressive political theory, one that is structured around the democratic power of "the people" as a constitutive political force.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Craig%2C+Patrick&rft.aulast=Craig&rft.aufirst=Patrick&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321360479&rft.btitle=&rft.title=The+a+priori+nature+of+the+political%3A+Democracy+and+scientific+method+in+Thomas+Hobbes&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Craig%2C+Patrick&rft.aulast=Craig&rft.aufirst=Patrick&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321360479&rft.btitle=&rft.title=The+a+priori+nature+of+the+political%3A+Democracy+and+scientific+method+in+Thomas+Hobbes&rft.issn=&rft_id=info:doi/

Subject: Philosophy; Political science

Classification: 0422: Philosophy; 0615: Political science

Identifier / keyword: Philosophy, religion and theology, Social sciences, Democracy, Multitude, Politics, Scientific method, Hobbes, thomas

Title: The a priori nature of the political: Democracy and scientific method in Thomas Hobbes

Number of pages: 280

Publication year: 2014

Degree date: 2014

School code: 0067

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321360479

Advisor: Selcer, Daniel

Committee member: Evans, Fred, Swindal, James, Jesseph, Douglas

University/institution: Duquesne University

Department: Philosophy

University location: United States -- Pennsylvania

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3646156

ProQuest document ID: 1639618933

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1639618933?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 5 of 23

Modular Theory and Spacetime Structure in QFT

Author: Swanson, Noel Waldron

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622398743?accountid=14709>

Abstract: In quantum field theory (QFT), physical quantities are represented by a net of operator algebras indexed by spacetime region. Each local algebra comes equipped with a state-dependent pair of modular operators, (J, Δ) , encoding vital information about the algebra's internal structure, the local state, and the relational structure of the net. These operators and the associated structure theory are the subject of Tomita-Takesaki modular theory. Despite its importance, the physical significance of modular theory remains murky, and philosophers of QFT have largely ignored it. This dissertation aims to help close the gap. It explores a series of deep connections between modular theory and spacetime geometry established by the Bisognano-Wichmann theorem (which identifies the modular operators attached to spacelike wedge regions in the vacuum sector with certain generators of the Poincaré group). Chapter 1 orients my project within the current philosophical literature on the foundations of QFT. I advocate a cosmopolitan stance towards the subject, incorporating tools from Lagrangian, constructive, and algebraic field theory alike. Adopting this stance, chapter 2 introduces the core mathematical ideas behind modular theory and discusses several important physical applications centered around the Bisognano-Wichmann theorem. Chapter 3 examines how modular theory can be used to give new geometric insight into the parity-charge-time (PCT) theorem. I argue that the key to understanding the mysterious connection between spatiotemporal orientation and charge structure entailed by the theorem

lies in recognizing PCT symmetry as a single global reflection of quantum statespace. Chapter 4 turns to the vexed problem of localization in QFT. Modular theory tells us that at a fundamental level the world is thoroughly entangled. In spite of this, via the split/nuclearity conditions, modular theory also supplies critical tools needed to help explain approximately-localized emergent entities like particles and chairs. The final chapter contains a critique of the Connes-Rovelli thermal time hypothesis, a proposal to solve the problem of time in quantum gravity using modular theory. Although I conclude that the current proposal cannot provide a coherent gauge-free description of physical change in generally covariant settings, it does highlight an intriguing connection between modular structure and local dynamics in standard QFT.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Swanson%2C+Noel+Waldron&rft.aulast=Swanson&rft.aufirst=Noel&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321288155&rft.btitle=&rft.title=Modular+Theory+and+Spacetime+Structure+in+QFT&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Swanson%2C+Noel+Waldron&rft.aulast=Swanson&rft.aufirst=Noel&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321288155&rft.btitle=&rft.title=Modular+Theory+and+Spacetime+Structure+in+QFT&rft.issn=&rft_id=info:doi/

Subject: Philosophy of Science; Quantum physics

Classification: 0402: Philosophy of Science; 0599: Quantum physics

Identifier / keyword: Philosophy, religion and theology, Pure sciences, Localization, PCT theorem, Quantum field theory, Relativistic spacetime, Thermal time hypothesis, Tomita-Takesaki modular theory, Spacetime

Title: Modular Theory and Spacetime Structure in QFT

Number of pages: 183

Publication year: 2014

Degree date: 2014

School code: 0181

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321288155

Advisor: Halvorson, Hans

**Committee member: Baker, David J., Dasgupta, Shamik,
Morison, Benjamin**

University/institution: Princeton University

Department: Philosophy

University location: United States -- New Jersey

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3642158

ProQuest document ID: 1622398743

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622398743?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 6 of 23

The Cognitive Neuroscience of Mathematics: Tuning Up the Number System

Author: Emerson, Robert

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1638216573?accountid=14709>

Abstract: Living in today's society demands a functional control of math. Recent research suggests that adult mathematical skill is founded on an ontogenetically early emerging number sense, or ability to approximately estimate quantities. This ability is shared with many species, suggesting it represents a core and primitive approximate number system (ANS). Neuroimaging research in both monkeys and humans has linked the ANS to the neural responses of the intraparietal sulcus (IPS). As children mature, learn to count and calculate, the BOLD

responses of the IPS bear the ratio-dependent signature of the approximate number system. These neural responses show longitudinal profiles that suggest the ANS is relatively stable and sharpens its numerical representations across development in a way that predict their behavioral performance (Emerson & Cantlon, 2014). Children also show math-specific functional connections between the IPS and areas of frontal cortex (Emerson & Cantlon, 2012). This suggests that the IPS plays a role in fine-tuning number and math skills during development. In adults, we have observed a segregation of number-related processes vs other quantitative processes (size/brightness) in the IPS. Regions of the IPS that show a selective response to number overlap with regions that show a ratio-dependent response profile, defining the right IPS as an area of the brain that supports non-verbal numerical skill. Furthermore, we find that cortical thickness correlates with scores on standardized math assessments (SAT) in an area of the right IPS, overlapping regions that are functionally related to number skill. In other words, anatomical and functional variability in the IPS is related to both the ANS and math skill in typical adults. When we tested this region in people with advanced math training, we observed both a heightened neural response to numerical ratio as well as significantly thinner cortex in the depth of the IPS. Compared to typical adults, experts are showing a stronger response of the ANS as well as thinner cortex in a region that correlates with math skills in non-experts (Emerson, Vo, Lussier, Kurtz, & Cantlon, submitted). Taken together, these data converge on the conclusion that our uniquely human ability to use symbolic arithmetic is

critically linked to our primitive approximate number skill through a shared neural substrate in the intraparietal sulcus.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Emerson%2C+Robert&rft.aulast=Emerson&rft.aufirst=Robert&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321332841&rft.btitle=&rft.title=The+Cognitive+Neuroscience+of+Mathematics%3A+Tuning+Up+the+Number+System&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Emerson%2C+Robert&rft.aulast=Emerson&rft.aufirst=Robert&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321332841&rft.btitle=&rft.title=The+Cognitive+Neuroscience+of+Mathematics%3A+Tuning+Up+the+Number+System&rft.issn=&rft_id=info:doi/

**Subject: Neurosciences; Behavioral psychology;
Developmental psychology**

**Classification: 0317: Neurosciences; 0384: Behavioral
psychology; 0620: Developmental psychology**

**Identifier / keyword: Biological sciences, Psychology,
Cognitive neuroscience, fMRI, Numerical cognition**

**Title: The Cognitive Neuroscience of Mathematics: Tuning
Up the Number System**

Number of pages: 146

Publication year: 2014

Degree date: 2014

School code: 0188

Source: DAI-B 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321332841

Advisor: Cantlon, Jessica

**Committee member: Mahon, Bradford, Langfitt, John,
Jamieson, Jeremy**

University/institution: University of Rochester

Department: School of Arts and Sciences

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644875

ProQuest document ID: 1638216573

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1638216573?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 7 of 23

The Fate of Invention in Late 19th Century French Literature

Author: Oancea, Ana I.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629017294?accountid=14709>

Abstract: This dissertation reads the novels of Jules Verne, Albert Robida, Villiers de l'Isle-Adam and Emile Zola, investigating the representation of inventors who specialize in electricity. The figure appears as the intersection of divergent literary movements: Zola, the father of Naturalism and leading proponent of a 'scientific' approach to literature, Villiers de l'Isle-Adam, decadent playwright and novelist, Robida, leading caricaturist and amateur historian, and Verne, prominent figure in the emerging genre of anticipation, all develop the inventor character as one who succeeds in realizing key technological aspirations of the 19th century. The authors, however, take a dim view of his activity. Studying the figure of the inventor allows us to gain insight into fundamental 19th century French anxieties over the nation's progress in science and technology, its national identity, and international standing. Chapter 1 focuses on the works of Jules Verne, elaborating a portrait of the inventor as he appears in the series of the *Voyages Extraordinaires*. The character returns with remarkable preponderance in subsequent installments of the series, with *Vingt mille lieues sous les mers* (1870), *L'île mystérieuse* (1874-1875), *Les Cinq cents millions de la Béguine* (1879), *Robur-le-conquérant* (1886), *Le Château des Carpathes* (1892), *Face au drapeau* (1896) and *Maître du monde* (1904) all showing him as best poised to advance French science. Emphasis is placed on his private, reclusive

pursuit of the discipline, which is contrasted by the author through the development of characters representing official science. This distinction is read in the context of Verne's educational mission, which supports the official scientists and emphasizes service to the community and the growth of their respective disciplines. Chapter 2 analyzes Albert Robida's key satirical futuristic novel *La Vie électrique* (1892). Unlike Verne, Robida illustrates perversions of progress, offering a world in which the rhythm of life is sped up to an untenable pace by inventors. Set in the 20th century, in this version of France technology is fully integrated in everyday life, the inventor is a popular idol and successful businessman. Despite this great departure from the model proposed in Chapter 1, the figure of the inventor is defined through the same seclusion and dedication to research, disdain for education and oversight of his activities. The author thereby succeeds in simultaneously illustrating the realization of France's hopes and fears about its technological development at the turn of the century. Whereas Verne gives voice to the dominant ideological perspective on science, Robida's position as satirist enables him to critique it while retaining a degree of hope, not only through aspects of the plot but also his copious illustrations. Chapter 3 focuses on the figure of Thomas Edison as the protagonist of Villiers de l'Isle-Adam's *L'Eve future* . Borrowing the electrical inventor from anticipation, the novel finds its other main source in the topoi of the decadent movement. The inventor's real-life persona is offered as guarantee of the extraordinary achievement of his fictional counterpart, in contrast to Verne's conveying

realism through scientific detail. The inventor cynically markets his work to a decadent audience, but Villiers also relies on the repertoire of this tradition to condemn him. The author merely plays at integrating Edison into the line one would imagine for him. Prometheus and Frankenstein are the mythological and literary standards against which the new figure is compared, but are quickly dismissed. Villiers then suggests Goethe's Faust as the most reliable model, only to reveal in a final, negative assessment of the Edison that he is, in fact, Mephistopheles. The novel thus constructs a modern legend of the inventor as a fusion of contemporary journalism and older literary archetypes. Chapter 4 reads Zola's Travail (1901) as a utopian re-writing of Germinal (1885). It argues that Travail realizes Germinal 's closing warning that 'new men' would eventually emerge, though it is not to avenge tragedy. These 'new men' are the same 19th century workers of Germinal , whose violence and lack of education Zola had described as infantilizing, but this time, they are the children of better fathers, who prepare them to adapt and evolve. The transformation of the working-class community depicted in the Evangile is possible through the work of a Vernian inventor, Jordan. Zola repeats many of the topoi of the character's representation in our other authors, which are again associated with singular success in the domain of electricity. Through Jordan, Zola moves away from his Naturalist of heredity, where the efforts or ambitions of the individual were thwarted by the manifestation of an ancestral tare. Travail uses the inventor figure to propose a new model, one which allows for the

transmission of acquired characteristics, and in which positive change is possible. (Abstract shortened by UMI.)

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Oancea%2C+Ana+I.&rft.aulast=Oancea&rft.aufirst=Ana&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321353075&rft.btitle=&rft.title=The+Fa+te+of+Invention+in+Late+19th+Century+French+Literature&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Oancea%2C+Ana+I.&rft.aulast=Oancea&rft.aufirst=Ana&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321353075&rft.btitle=&rft.title=The+Fa+te+of+Invention+in+Late+19th+Century+French+Literature&rft.issn=&rft_id=info:doi/

Subject: Romance literature; Science history

Classification: 0313: Romance literature; 0585: Science history

Identifier / keyword: Language, literature and linguistics, Social sciences, Anticipation, Decadence, Electricity, Naturalism, Science

Title: The Fate of Invention in Late 19th Century French Literature

Number of pages: 290

Publication year: 2014

Degree date: 2014

School code: 0054

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321353075

Advisor: Ladenson, Elisabeth A.

University/institution: Columbia University

Department: French and Romance Philology

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645893

ProQuest document ID: 1629017294

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629017294?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 8 of 23

**Speaking in circles: Completeness in Kant's metaphysics
and mathematics**

Author: Robinson, Elizabeth Ann

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018770?accountid=14709>

Abstract: This dissertation presents and responds to the following problem. For Kant a field of enquiry can be a science only if it is systematic. Most sciences achieve systematicity through having a unified content and method. Physics, for example, has a unified content, as it is the science of matter in motion, and a unified method because all claims in physics must be verified through empirical testing. In order for metaphysics to be a science it also must be systematic. However, metaphysics cannot have a unified content or method because metaphysicians lack a positive conception of what its content and method are. On Kant's account, metaphysicians can say with certainty what metaphysics does not study and what methods it cannot use, but never how it should proceed. Without unified content and method systematicity can only be guaranteed by some other means, namely, completeness. Without completeness metaphysics cannot have systematicity and every science must be systematic. Completeness can only be achieved if we severely limit the scope of metaphysics so that it contains only the conditions for the possibility of experience. This dissertation defends the claims made about the centrality of completeness in understanding Kant's conception of metaphysics as a science in two ways. First, the first two chapters point to a substantial body of textual evidence that supports the idea that Kant was directly concerned about the notion of completeness and links it to his conception of metaphysics as a science. Chapters 3 and 4 consider some possible objections to thinking that metaphysics as a science can be complete,

giving special consideration to Gödel's incompleteness theorem. Chapter 5 explains why, if this position is as clear as this dissertation has argued, previous scholars have failed to acknowledge it. Giving a full answer to this question requires considering the general neglect of the "Doctrine of Method" section of Kant's primary theoretical text, The Critique of Pure Reason. The Doctrine of Method contains many of the passages which most directly support my thesis. Chapter 6 explains why scholars have ignored this important passage and argues that they should not continue to do so.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Robinson%2C+Elizabeth+Ann&rft.aulast=Robinson&rft.aufirst=Elizabeth&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321352610&rft.btitle=&rft.title=Speaking+in+circles%3A+Completeness+in+Kant%27s+metaphysics+and+mathematics&rft.issn=&rft_id=info:doi/

[http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-](http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Robinson%2C+Elizabeth+Ann&rft.aulast=Robinson&rft.aufirst=Elizabeth&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321352610&rft.btitle=&rft.title=Speaking+in+circles%3A+Completeness+in+Kant%27s+metaphysics+and+mathematics&rft.issn=&rft_id=info:doi/)

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Robinson%2C+Elizabeth+Ann&rft.aulast=Robinson&rft.aufirst=Elizabeth&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321352610&rft.btitle=&rft.title=Speaking+in+circles%3A+Completeness+in+Kant%27s+metaphysics+and+mathematics&rft.issn=&rft_id=info:doi/

Subject: Philosophy

Classification: 0422: Philosophy

Identifier / keyword: Philosophy, religion and theology, Completeness, Kant, Mathematics, Metaphysics

Title: Speaking in circles: Completeness in Kant's metaphysics and mathematics

Number of pages: 251

Publication year: 2014

Degree date: 2014

School code: 0017

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321352610

Advisor: Kuehn, Manfred

**Committee member: Webb, Judson, Dahlstrom, Daniel, Hopp,
Walter, Roochnik, David**

University/institution: Boston University

Department: Arts and Sciences

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645851

ProQuest document ID: 1629018770

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629018770?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 9 of 23

All at one point: The new physics of Italo Calvino and Jorge Luis Borges

Author: Rinaldi, Mark T.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629480770?accountid=14709>

Abstract: This work of comparative literary criticism focuses on the presence of mathematical and scientific concepts and imagery in the works of Italo Calvino and Jorge Luis Borges, beginning with an historical overview of scientific philosophy and an introduction to the most significant scientific concepts of the last several centuries, before shifting to deep, scientifically-driven analyses of numerous individual fictions, and finally concluding with a meditation on the unexpectedly fictive aspects of science and mathematics. The close readings of these authors' fictions are contextualized with thorough explanations of the potential literary implications of theories from physics, mathematics, neuroscience and chaos theory. While the mathematical studies highlight concepts such as "Zeno's Paradox," Cantorian set theory, and representations of numerical infinity, the discussions of physics isolate

theoretical structures such as black holes, parallel universes and quantum-entangled particles for use in discussing the fictions of both authors. Underlying the main goals of this work is an equal focus on the existence of an "ideal intellectual" or, more broadly, an ideal liberal arts education that draws together concepts from diverse and seemingly-unrelated fields of knowledge with the intention of generating unexpected and novel ideas and connections. By demonstrating the numerous appearances of scientific and mathematical imagery in the works of Calvino and Borges, this work emphasizes the shared fictive basis of all human knowledge and strives to set science and fiction alongside each other as equals in the hope of preserving the richness and diversity of intellectual enterprises.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Rinaldi%2C+Mark+T.&rft.aulast=Rinaldi&rft.aufirst=Mark&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321284225&rft.btitle=&rft.title=All+at+one+point%3A+The+new+physics+of+Italo+Calvino+and+Jorge+Luis+Borges&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Rinaldi%2C+Mark+T.&rft.aulast=Rinaldi&rft.aufirst=Mark&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321284225&rft.btitle=&rft.title=All+at+one+point%3A+The+new+physics+of+Italo+Calvino+and+Jorge+Luis+Borges&rft.issn=&rft_id=info:doi/

Subject: Comparative literature; Latin American literature; Romance literature; Philosophy of Science

Classification: 0295: Comparative literature; 0312: Latin American literature; 0313: Romance literature; 0402: Philosophy of Science

Identifier / keyword: Language, literature and linguistics, Philosophy, religion and theology, Borges, Calvino, Literary criticism, Literature, Mathematics, Physics

Title: All at one point: The new physics of Italo Calvino and Jorge Luis Borges

Number of pages: 223

Publication year: 2014

Degree date: 2014

School code: 0046

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321284225

Advisor: Lombardi, Giancarlo

**Committee member: Lombardi, Giancarlo, Calabritto,
Monica, Schwartz, Lia**

University/institution: City University of New York

Department: Comparative Literature

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3641903

ProQuest document ID: 1629480770

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629480770?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 10 of 23

The arts of the microbial world: Biosynthetic technologies in twentieth-century Japan

Author: Lee, Victoria

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622386199?accountid=14709>

Abstract: This dissertation explores how Japanese scientists and skilled workers sought to use microbes' natural processes to create new forms and products of life. Processes of microbial biosynthesis were ubiquitous in Japan, from miso-making in the kitchen, to soy-sauce mold starters and vitamins, and to monosodium glutamate and statins in which Japan led globally as an innovator and that scientists called "gifts from microorganisms." In traditional brewing houses and in the food, fine chemical and pharmaceutical industries across the country, scientists and

skilled workers came to study microbial life and to tinker with life as fermentation phenomena. Such practices destabilize our notions of life at the edge of our current knowledge. I trace the institutions and technologies of fermentation and look for points of connection from the turn of the twentieth century to the early 1960s. By focusing on a fermentation-based vision of life that took shape in Japan, I examine the role of cultural and technical continuities with the premodern period in sustaining Japan's technological breakthroughs in the global economy. This dissertation seeks to understand what it means to study modern science in a non-Western context. When we look through the eyes and hands of Japanese scientists and technologists, we see categories of investigation that were distinctive to that society and which owed their existence at least partly to premodern practices of fermentation. By focusing on the significance of knowledge within traditional and small-scale industries, this dissertation demonstrates that craft knowledge lay at the heart of Japanese scientific and technological contributions in the late twentieth century. The study also presents a view of how a non-Western society understood life as technological potentiality, focusing on what living things can do or be asked to do. It offers a historical point of comparison as scientists increasingly seek to know life by intervening in and recreating life, as notions of biological determinism soften with new awareness of interactions between ourselves, other organisms, and the environment, and as the microbial world takes a new centrality in debates on biotechnologies. Finally, this dissertation contributes to our understanding of

ecologies in Japanese cultural life, economic organization, and moral consciousness. Through an ecological vision of national self-sufficiency that dominated fermentation science, it explores how broader debates on environmental management impacted material culture at the level of food, resources, and medicine. Citation : Lee, Victoria. "The Arts of the Microbial World: Biosynthetic Technologies in Twentieth-Century Japan." Ph.D. diss, Princeton University, 2014.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Lee%2C+Victoria&rft.aulast=Lee&rft.aufirst=Victoria&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321287660&rft.btitle=&rft.title=The+arts+of+the+microbial+world%3A+Biosynthetic+technologies+in+twentieth-century+Japan&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&

**mp;rft.genre=dissertations+%26+theses&rft.jtitle=&am
p;rft.atitle=&rft.au=Lee%2C+Victoria&rft.aulast=Le
e&rft.aufirst=Victoria&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft.
t.isbn=9781321287660&rft.btitle=&rft.title=The+art
s+of+the+microbial+world%3A+Biosynthetic+technologies+i
n+twentieth-
century+Japan&rft.issn=&rft_id=info:doi/**

Subject: History; Biomedical engineering; Science history

**Classification: 0332: History; 0541: Biomedical engineering;
0585: Science history**

**Identifier / keyword: Social sciences, Applied sciences,
Biosynthesis, Business, Ecologies, Microbes, Japan,
Science, Technology and craft**

**Title: The arts of the microbial world: Biosynthetic
technologies in twentieth-century Japan**

Number of pages: 261

Publication year: 2014

Degree date: 2014

School code: 0181

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321287660

Advisor: Creager, Angela N. H., Elman, Benjamin A.

Committee member: Marcon, Federico, Howell, David L.

University/institution: Princeton University

Department: History of Science

University location: United States -- New Jersey

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3642113

ProQuest document ID: 1622386199

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622386199?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 11 of 23

Essays on Biological Individuality

Author: Booth, Austin Greeley

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429020?accountid=14709>

Abstract: Much of biology, especially evolutionary theory, makes assumptions about the individuality of living things. A population, for example, is made up of individuals. Those individuals sometimes reproduce, creating new individuals. The very use of these concepts requires that living individuals can be distinguished both synchronically and diachronically. There are many examples in nature, however, in which a living system is present, but it is not clear how to understand that system's individuality. Plants, fungi, colonial marine invertebrates, insect colonies, and symbiosis are all classic cases that have puzzled biologists interested in understanding their population structure and evolution. Scientific exploration of these issues has connections with traditional philosophical terrain, particularly the ontology of persistence and the nature of individuality broadly construed. A biologically informed philosophical literature has arisen in recent years, aimed at understanding the nature of biological individuality and its

role in biological theorizing. My dissertation makes two kinds of contributions to this current literature. One contribution is theoretical, reframing our thinking about biological individuality. I distinguish between two categories of individuality and argue that they play different roles in theorizing about nature. One important kind of individual is that of the organism, understood as an entity that persists through space and time, takes in and processes resources from the environment, and maintains physiological autonomy. Another important kind of individual is that of the evolutionary individual, understood as an entity that has the capacity to participate in processes of natural selection. Distinguishing between these two types of individuality has theoretical utility, keeping clear the distinctive kinds of biological processes that individuals engage in. The other contribution of my dissertation involves detailed natural historical analysis of three kinds of problem cases. Using the framework articulated earlier in the dissertation, I assess the individuality of symbioses between larger organisms and their microbial associates, mushroom-producing fungi, and the classic case of ant colonies. The combined result of the assessments is a hierarchical pluralism about biological individuality.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&a

**mp;rft.genre=dissertations+%26+theses&rft.jtitle=&am
p;rft.atitle=&rft.au=Booth%2C+Austin+Greeley&rft.
aulast=Booth&rft.aufirst=Austin&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft.
t.isbn=9781321334302&rft.btitle=&rft.title=Essays
+on+Biological+Individuality&rft.issn=&rft_id=info:
doi/**

**http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z3
9.88-2004&ctx_enc=info:ofi/enc:UTF-
8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+
Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&a
mp;rft.genre=dissertations+%26+theses&rft.jtitle=&
p;rft.atitle=&rft.au=Booth%2C+Austin+Greeley&rft.
aulast=Booth&rft.aufirst=Austin&rft.date=2014-01-
01&rft.volume=&rft.issue=&rft.spage=&rft.
t.isbn=9781321334302&rft.btitle=&rft.title=Essays
+on+Biological+Individuality&rft.issn=&rft_id=info:
doi/**

Subject: Philosophy of Science

Classification: 0402: Philosophy of Science

**Identifier / keyword: Philosophy, religion and theology,
Individuality, Organismality, Symbiosis**

Title: Essays on Biological Individuality

Number of pages: 112

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321334302

Advisor: Godfrey-Smith, Peter

Committee member: Hall, Edward, Pringle, Anne

University/institution: Harvard University

Department: Philosophy

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644961

ProQuest document ID: 1625429020

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429020?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 12 of 23

**Changing Climates: Deserts, Desiccation, and the Rise of
Climate Engineering 1870-1950**

Author: Lehmann, Philipp Nicolas

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429079?accountid=14709>

Abstract: This dissertation examines the impact of the nineteenth-century discussions about climate change and desiccation on large engineering projects in desert regions between 1870 and 1950. It demonstrates that the debate over the variability of global climatic conditions was a product of both internal academic and transnational political developments, and that the perceived threat of advancing desert conditions found a popular and technocratic

expression in climate engineering designs. Against the background of new theories about the earth's geological history, the development of academic geography, the travels of Sahara explorers, and imperialism in North Africa, European geographers and geologists initiated an enduring discussion on the origin of desert environments and the question of large-scale climatic changes in the recent past and present. Using a wide array of evidence ranging from cave paintings found in the interior Sahara and classical travel accounts to modern meteorological data, scientists debated whether North Africa, the entire continent, or even the whole world were undergoing desiccation. While the lack of a widely-accepted causal mechanism behind large climatic changes meant that the academic debate remained unresolved by the beginning of the twentieth century, images of progressing desert conditions had already left the confines of academia, heightening public anxiety over the possibility of future climatic catastrophes on a global scale. From the early stages of the nineteenth-century debate on climate change, fears of desiccation inspired scientists and engineers to come up with solutions to detrimental climatic shifts, whether these were viewed as man-made or natural. The resulting climate engineering projects were an expression of environmental pessimism paired with a powerful technological optimism. This was apparent in French and British schemes in the late nineteenth century that aimed to flood large parts of the Sahara and effect wide-ranging climatic changes; in the plan of a German architect to engineer a geographically and climatically transformed new Euro-African continent in the 1920s; and

eventually in Nazi designs to Germanize and green the "desertified" areas of Eastern Europe and Central Asia.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Lehmann%2C+Philipp+Nicolas&rft.aulast=Lehmann&rft.aufirst=Philipp&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334937&rft.btitle=&rft.title=Changing+Climates%3A+Deserts%2C+Desiccation%2C+and+the+Rise+of+Climate+Engineering+1870-1950&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Lehmann%2C+Philipp+Nicolas&rft.aulast=Lehmann&rft.aufirst=Philipp&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321334937&rft.btitle=&rft.title=Changi

**ng+Climates%3A+Deserts%2C+Desiccation%2C+and+the+Ri
se+of+Climate+Engineering+1870-
1950&rft.issn=&rft_id=info:doi/**

**Subject: African Studies; Climate Change; North African
Studies; Science history; Environmental engineering**

**Classification: 0293: African Studies; 0404: Climate Change;
0560: North African Studies; 0585: Science history; 0775:
Environmental engineering**

**Identifier / keyword: Social sciences, Applied sciences,
Earth sciences, Climate, Climatology, Deserts, Engineering,
Environment, Sahara**

**Title: Changing Climates: Deserts, Desiccation, and the Rise
of Climate Engineering 1870-1950**

Number of pages: 453

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321334937

Advisor: Blackbourn, David

**Committee member: Rothschild, Emma G., Ritvo, Harriet,
Johnson, Alison F.**

University/institution: Harvard University

Department: History

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645018

ProQuest document ID: 1625429079

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625429079?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 13 of 23

The garden politic: Botany, horticulture, and domestic cosmopolitanism in nineteenth-century American literature

Author: Kuhn, Mary P.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629019045?accountid=14709>

Abstract: My dissertation examines the political significance of nineteenth-century domestic literature by situating it within the overlapping cultural and scientific histories of plants. While scholars have largely understood the gardens and plants of nineteenth-century American literature as metaphors for and projections of human experience, I demonstrate the ways in which literary authors, like the cultures in which they wrote, understood plants to be distinct. The writers considered here--Lydia Maria Child, Nathaniel Hawthorne, Harriet Beecher Stowe, and Emily Dickinson--examine how botanical life challenged the categorical systems and geographical boundaries that organized political thought and practice. I read canonical literary texts alongside home garden manuals, horticultural club records, seed catalogs, herbariums, botany textbooks, and popular periodicals to reveal how the discursive and material practices of domestic horticulture prove to be surprisingly international in scope and political in nature. My

study is the first to offer a sustained examination of the way domestic writers invoked plant science and the language of grafting, transplanting, arranging, and weeding to engage central social issues of the century: imperialism, slavery, women's rights, and the democratic use of space. Chapter One explores how the idea of plant geography and transplantation fostered a nationalist discourse about plant origins. Focusing on writings across Lydia Maria Child's career, I argue for the central role plants play in her sentimental conception and eventual critique of American nationalism. Chapter Two shows how Hawthorne's understanding of botanical mobility--seedlings and soil whose circulation flouts national and legal boundaries--leads him to dismiss the idea of a civic identity grounded in personal property. Chapter Three demonstrates how Stowe comes to believe that biological diversity is necessary to America's democratic project. In attending to the ways that botanical science at mid-century celebrate ecological diversity, Stowe's second abolitionist novel, Dred, imagines a more racially diverse society than that envisioned in Uncle Tom's Cabin. In Chapter Four, Dickinson turns to theories of plant vitality and migration to critique a scientific method that set plants apart from humans, posing instead the possibility of a radical environmental ethic that accounts for plant rights.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kuhn%2C+Mary+P.&rft.aulast=Kuhn&rft.aufirst=Mary&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321352412&rft.btitle=&rft.title=The+garden+politic%3A+Botany%2C+horticulture%2C+and+domestic+cosmopolitanism+in+nineteenth-century+American+literature&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kuhn%2C+Mary+P.&rft.aulast=Kuhn&rft.aufirst=Mary&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321352412&rft.btitle=&rft.title=The+garden+politic%3A+Botany%2C+horticulture%2C+and+domestic+cosmopolitanism+in+nineteenth-century+American+literature&rft.issn=&rft_id=info:doi/

Subject: American literature

Classification: 0591: American literature

**Identifier / keyword: Language, literature and linguistics,
Horticulture, American literature, Botany**

**Title: The garden politic: Botany, horticulture, and domestic
cosmopolitanism in nineteenth-century American literature**

Number of pages: 211

Publication year: 2014

Degree date: 2014

School code: 0017

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321352412

Advisor: Lee, Maurice S., Korobkin, Laura H.

**Committee member: Henchman, Anna, Howell, William H.,
Rezek, Joseph**

University/institution: Boston University

Department: English

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645832

ProQuest document ID: 1629019045

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629019045?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 14 of 23

**Between the Arctic & the Adriatic: Polar Exploration,
Science & Empire in the Habsburg Monarchy**

Author: Walsh, Stephen Anthony

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428199?accountid=14709>

Abstract: Exploration was a defining aspect of how European societies encountered and established relations with the wider world. It set the stage for worldwide empires and laid the foundations for understandings of planetary existence. Exploration facilitated the exchange of commodities and ideas, the migration of peoples and the construction of scientific knowledge. This dissertation examines the nexus between ice and imperium through a study of how citizens of the Habsburg Monarchy contributed to polar exploration. In the long nineteenth century, the two main objects of European exploration were Africa and the polar regions. In the former, the dynamic between exploration and empire was fairly straightforward. But how did imperialism function in the frozen, uninhabited, latitudes of the world? This question becomes more problematic for the Habsburg Monarchy, a multinational polity with eleven officially recognized languages, and a self-professed empire that was the one European "Great Power" at the time without overseas colonies. This dissertation analyzes how the symbology and practice of polar exploration was used in the service of sundry--and frequently contradictory--political projects, including various nationalist activisms, Habsburg loyalism, and the liberal politics of notables. The analysis incorporates a case study in the convoluted road between discovery and empire, Franz Josef Land, the northernmost terrain in Eurasia, discovered by an Austro-Hungarian expedition in 1873. This dissertation then traces fractures within the Austro-Hungarian culture of exploration, as explorer/scientists could reach little consensus on the goals

and practices for expeditions to the farthest latitudes of the globe. Finally, it examines how the rise of mass-data driven inductive sciences, such as geomagnetism, caused a fundamental redefinition in the practice of polar research toward a model of corporate, coordinated scientific effort and transnational cooperation. With the emergence of nation states and colonial empires, the basic frameworks of sovereignty, legitimacy and political meaning were changing and this study highlights how Habsburg subjects contributed to these modernization processes. In so doing, it brings to light neglected but lasting aspects of nineteenth century imperialism and treats both nationalism and empire as research problems rather than given ends.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Walsh%2C+Stephen+Anthony&rft.aulast=Walsh&rft.aufirst=Stephen&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321335637&rft.btitle=&rft.title=Between+the+Arctic+%26+the+Adriatic%3A+Polar+Exploration%2C+Science+%26+Empire+in+the+Habsburg+Monarchy&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Walsh%2C+Stephen+Anthony&rft.aulast=Walsh&rft.aufirst=Stephen&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321335637&rft.btitle=&rft.title=Between+the+Arctic+%26+the+Adriatic%3A+Polar+Exploration%2C+Science+%26+Empire+in+the+Habsburg+Monarchy&rft.issn=&rft_id=info:doi/

Subject: European history; Science history

Classification: 0335: European history; 0585: Science history

Identifier / keyword: Social sciences, Arctic, Austria, Exploration, Geography, Habsburg, Polar

Title: Between the Arctic & the Adriatic: Polar Exploration, Science & Empire in the Habsburg Monarchy

Number of pages: 415

Publication year: 2014

Degree date: 2014

School code: 0084

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321335637

Advisor: Johnson, Alison F.

**Committee member: Blackburn, David, Armitage, David,
Wolff, Larry**

University/institution: Harvard University

Department: History

University location: United States -- Massachusetts

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3645087

ProQuest document ID: 1625428199

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1625428199?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 15 of 23

Tabling Death: Life Insurance in Modern Japan, 1881-1945

Author: Moran, Ryan Marshall

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629063234?accountid=14709>

Abstract: This dissertation is a study of the history of the life insurance industry in modern Japan. Through the topic of life insurance, I analyze the objectification and quantification of life under capitalism and industrialization in modern Japan. Through life insurance, this study analyzes the process by which life became an isolated object that was simultaneously connected to the aggregate of society. Life insurance companies and executives, in fact, were among the first groups or individuals to use the term seimei, the modern Japanese term for life. I argue that the collection and organization of statistical data by insurance actuaries and state bureaucrats led to new ways of categorizing, governing and commodifying Japanese lives. These actors used mortality and health data to transform

lives into comparable and interchangeable individuated objects that they could simultaneously organize within newly defined social categories - including laborers, the old and women. This new mode of categorizing social relations helped organize and manage the various parts of the population and to transform life itself into a resource from which the state and private companies could expropriate value. The topic of life insurance, moreover, highlights the importance of activating consumer desire for the practice of interpellating the modern Japanese subject. The new biopolitical mode of governance, which had the mobilization of life at its center, could not simply operate through indoctrination and repression, but also needed to work through the individual as an autonomous, desiring subject trained in new modes of responsible conduct. In the individual chapters, I analyze a few of the most important possibilities unleashed by this shift - life as a scientifically constituted aggregate (chapter 1), life as object of social policy (chapter 2), life as part of the health of the nation (chapter 3), life as a deferred commodity in the 1920s and 1930s (chapter 4), and life as an economic and ideological wartime resource (chapter 5). The five chapters thus all bring attention to the myriad projects for which the state and insurance companies might utilize life in its form as a socially constituted commodity. The chapters, moreover, highlight the simultaneous role played by utopic hope and fear of uncertainty in inciting consumer desire for life as a commodity.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Moran%2C+Ryan+Marshall&rft.aulast=Moran&rft.aufirst=Ryan&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321323870&rft.btitle=&rft.title=Tabling+Death%3A+Life+Insurance+in+Modern+Japan%2C+1881-1945&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Moran%2C+Ryan+Marshall&rft.aulast=Moran&rft.aufirst=Ryan&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321323870&rft.btitle=&rft.title=Tabling+Death%3A+Life+Insurance+in+Modern+Japan%2C+1881-1945&rft.issn=&rft_id=info:doi/

Subject: History; Science history

Classification: 0332: History; 0585: Science history

Identifier / keyword: Social sciences, Daily life, Japan, Life insurance, Statistics, The consumer subject, The future

Title: Tabling Death: Life Insurance in Modern Japan, 1881-1945

Number of pages: 332

Publication year: 2014

Degree date: 2014

School code: 0033

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321323870

Advisor: Tanaka, Stefan, Fujitani, Takashi

Committee member: Gere, Catherina, Hankins, Joseph, Reid, Roddey

University/institution: University of California, San Diego

Department: History

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644284

ProQuest document ID: 1629063234

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629063234?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 16 of 23

**The National Character of Science: Statistics in modern
Japan**

Author: Winther, Jennifer Alcyon

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622145356?accountid=14709>

Abstract: To examine the relationship of ways of knowing with ways of governing, I examine the social and political development of Japanese statistics and find that science is not universal and objective, but profoundly local, shaped by the national cultures and histories in which it is institutionalized. The present research attempts to explain the rise of statistics as a diverse but integrated field of expertise shaped by the interactions of political discourse with the development of scientific ideas and the active development of institutional structures. Focusing on two periods of social transformation in Japan, I investigate two empirical questions: How did statisticians define their work intellectually in each period? With what strategies and in what organizational locations did statisticians institutionalize their specific forms of knowledge production? By investigating these two specific questions, I have tried to emphasize the process of developing statistical ideas themselves in particular contexts rather than treat statistics as a universally defined body of knowledge that develops universally in any social environment. Data for my analyses consists of a variety of primary material in Japanese, translated by the author, ranging from original publications of scholarly debates in the late nineteenth century compiled by the Central Statistics Bureau, government reports, historical documents from professional associations and state agencies, and a set of interview transcripts from the postwar period. I also bring together scholarly studies heretofore separated by disciplinary boundaries of management studies, history, sociology, and Asian studies. Drawing largely on Foucaultian

ideas of techniques of power, and further specifying Bourdeusian field theory to account for the unique position of statistics among professions more closely tied to the political rather than the economic sphere, I demonstrate how the development of statistics in Japan relied more on political capital, thus institutionalizing scientific and political authority in specific ways.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Winther%2C+Jennifer+Alcyon&rft.aulast=Winther&rft.aufirst=Jennifer&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321295139&rft.btitle=&rft.title=The+National+Character+of+Science%3A+Statistics+in+modern+Japan&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Winther%2C+Jennifer+Alcyon&

rft.aulast=Winther&rft.aufirst=Jennifer&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321295139&rft.btitle=&rft.title=The+National+Character+of+Science%3A+Statistics+in+modern+Japan&rft.issn=&rft_id=info:doi/

Subject: Asian Studies; Sociology

Classification: 0342: Asian Studies; 0626: Sociology

Identifier / keyword: Social sciences, Expertise, Government, Japan, Knowledge, Science, Statistics

Title: The National Character of Science: Statistics in modern Japan

Number of pages: 103

Publication year: 2014

Degree date: 2014

School code: 0031

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321295139

Advisor: Roy, William G.

Committee member: Timmermans, Stefan, Ortiz, Vilma

University/institution: University of California, Los Angeles

Department: Sociology 0867

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3642541

ProQuest document ID: 1622145356

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1622145356?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 17 of 23

**Image objects: An archaeology of 3D computer graphics,
1965-1979**

Author: Gaboury, Jacob

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

Abstract: Image Objects: An Archaeology of 3D Computer Graphics, 1965-1979 explores the early history of 3D computer graphics and visualization with a focus on the pioneering research center at the University of Utah. The University of Utah is one of the most significant sites in the history of computing, but has been largely neglected by historians and digital media scholars alike. From 1965-1979 almost all fundamental principals of modern computer graphics were developed by Utah graduates and faculty, many of whom went on to found some of the most important research and technical organizations of the past fifty years, including Adobe, Pixar, Netscape, and Atari. The project begins with this history, but looks to pull apart familiar narratives of invention and innovation by engaging the challenges and failures of early research into computer visualization. As such the project is organized around a set of technical and cultural objects of particular significance to the early history of graphics. Chapter One introduces the project and its research site and the University of Utah, discussing methods, archives, and the history of the Utah

program. Chapter Two offers a meditation on questions of vision and visibility, structured around the development of the "hidden surface algorithm" for graphical display from 1965-1969. Chapter Three offers an analysis of memory and materiality through the lens of early graphics hardware, with a focus on the development of the first commercial framebuffer in 1973. Chapter Four investigates objects and ontology through an analysis of the "Utah Teapot", a famous graphical object standard developed in 1974 and used widely in contemporary software, film, and research demonstrations. Finally, Chapter Five offers an analysis of language and text through an exploration of the object-oriented paradigm first conceived by Alan Kay at the University of Utah. By looking to the first moments in which visual computing is made possible this project critiques popular narratives that view the digital image as an extension of earlier visual forms, arguing instead that the development of 3D interactive graphics marks the moment at which computer science develops a concern for ontology and the simulation of objects in the world. Ultimately the project seeks to make the familiar strange, offering a theory of the digital image that refuses a genealogy of the visible.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&

p;rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

Subject: Communication; Science history; Film studies

Classification: 0459: Communication; 0585: Science history; 0900: Film studies

Identifier / keyword: Social sciences, Communication and the arts, 3 dimensional, Computer graphics, Graphics, History, Media archaeology, Utah

Title: Image objects: An archaeology of 3D computer graphics, 1965-1979

Number of pages: 271

Publication year: 2014

Degree date: 2014

School code: 0146

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321302868

Advisor: Galloway, Alexander

Committee member: Gitelman, Lisa, Lenoir, Timothy, Robles-Anderson, Erica, Parikka, Jussi

University/institution: New York University

Department: Media, Culture, and Communication

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3643021

ProQuest document ID: 1635305045

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 18 of 23

Universal Biology

Author: Mariscal, Carlos

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629048309?accountid=14709>

Abstract: Our only example of life is that of Earth- which is a single lineage. We know very little about what life would look like if we found evidence of a second origin. Yet there are some universal features of geometry, mechanics, and

chemistry that have predictable biological consequences. The surface-to-volume ratio property of geometry, for example, places a maximum limit on the size of unassisted cells in a given environment. This effect is universal, interesting, not vague, and not arbitrary. Furthermore, there are some problems in the universe that life must invariably solve if it is to persist, such as resistance to radiation, faithful inheritance, and resistance to environmental pressures. At least with respect to these universal problems, some solutions must consistently emerge. In this dissertation, I develop and defend my own account of universal biology, the study of non-vague, non-arbitrary, non-accidental, universal generalizations in biology. In my account, a candidate biological generalization is assessed in terms of the assumptions it makes. A successful claim is accepted only if its justification necessarily makes reference to principles of evolution and makes no reference to contingent facts of life on Earth. In this way, we can assess the robustness with which generalizations can be expected to hold. I contend that using a stringent-enough causal analysis, we are able to gather insight into the nature of life everywhere. Life on Earth may be our single example of life, but this is merely a reason to be cautious in our approach to life in the universe, not a reason to give up altogether.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Mariscal%2C+Carlos&rft.aulast=Mariscal&rft.aufirst=Carlos&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321324907&rft.btitle=&rft.title=Universal+Biology&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Mariscal%2C+Carlos&rft.aulast=Mariscal&rft.aufirst=Carlos&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321324907&rft.btitle=&rft.title=Universal+Biology&rft.issn=&rft_id=info:doi/

Subject: Molecular biology; Evolution and Development; Philosophy

Classification: 0307: Molecular biology; 0412: Evolution and Development; 0422: Philosophy

Identifier / keyword: Philosophy, religion and theology, Biological sciences, Biological laws, Definition of life, Evolutionary contingency, Evolutionary systems, Robustness, Universal biology

Title: Universal Biology

Number of pages: 257

Publication year: 2014

Degree date: 2014

School code: 0066

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321324907

Advisor: Brandon, Robert, Rosenberg, Alex

University/institution: Duke University

Department: Philosophy

University location: United States -- North Carolina

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3644335

ProQuest document ID: 1629048309

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1629048309?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 19 of 23

**Science of sleep: Tracing the visual language of dreams
from Fuseli to Gondry**

Author: McClellan, Bethany

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1490996457?accountid=14709>

**Abstract: Periods of intense visual and scientific exploration
of dreams include the late eighteenth and early nineteenth-
century Romantic movement, the early twentieth-century**

publication of Sigmund Freud's Interpretation of Dreams and corresponding Surrealist movement, and the contemporary era. Primary themes established by Romantic scholars and artists and expanded upon by Freud and the Surrealists resonate in contemporary dream theory and visual art. These themes include: an interest in the relationship between the dreaming mind and the creative process, childhood cognition, perceptual effects of visual art, the purpose and function of dreams, and the associational abilities of the dreaming mind. Using Michel Gondry's 2006 film The Science of Sleep and corresponding gallery exhibition as a platform for investigating contemporary trends merging art and neuroscience, this thesis illustrates how scientific resources like brain imaging technology, contemporary dream theory, and the emerging practice of sleep medicine can support and enhance artistic and scholarly approaches. Contextualizing Gondry's work within a network of contemporary artists interested in creating scientifically-informed work based on dreams illuminates emerging themes, such as: an emphasis on viewer participation, utilizing tactile media to evoke the oneiric experience, and cross-disciplinary collaboration. By tracing historical periods of heightened interest in the unconscious, this thesis provides a comprehensive understanding of how these periods formed the artistic representation of dreams and contributed to brain science. Applying neuroscience and contemporary dream theory to the critical consideration of the work of Gondry and his contemporaries represents a new approach to scholarship on dreams and underscores the mutual benefits of merging art and science. This cross-

disciplinary approach to understanding and visually interpreting the inner mind enhances the understanding of one of the greatest mysteries of science, illuminating many cultural, medical, and scientific endeavors.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=McClellan%2C+Bethany&rft.aulast=McClellan&rft.aufirst=Bethany&rft.date=2013-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781303622151&rft.btitle=&rft.title=Science+of+sleep%3A+Tracing+the+visual+language+of+dreams+from+Fuseli+to+Gondry&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=McClellan%2C+Bethany&rft.aulast=McClellan&rft.aufirst=Bethany&rft.date=2013-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781303622151&rft.btitle=&rft.title=Science+of+sleep%3A+Tracing+the+visual+language+of+dreams+from+Fuseli+to+Gondry&rft.issn=&rft_id=info:doi/

t.isbn=9781303622151&rft.btitle=&rft.title=Science+of+sleep%3A+Tracing+the+visual+language+of+dreams+from+Fuseli+to+Gondry&rft.issn=&rft_id=info:doi/

Subject: Neurosciences; Art history; Film studies

Classification: 0317: Neurosciences; 0377: Art history; 0900: Film studies

Identifier / keyword: Communication and the arts, Biological sciences, Brain science, Creativity, Dreams, Film, Perception, Gondry, Michel, Fuseli, Henry

Title: Science of sleep: Tracing the visual language of dreams from Fuseli to Gondry

Number of pages: 166

Publication year: 2013

Degree date: 2013

School code: 0005

Source: MAI 52/04(E), Aug 2014

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781303622151

Advisor: McPherson, Heather

Committee member: Cummings, Cathleen, Nancarrow, Mindy

**University/institution: The University of Alabama at
Birmingham**

Department: Arts & Humanities

University location: United States -- Alabama

Degree: M.A.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 1549640

ProQuest document ID: 1490996457

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1490996457?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2013**

Database: ProQuest Dissertations & Theses Global

Document 20 of 23

An evaluation of the Brazilian policies for science and technology in the light of theories of development: 1960-1985 period

Author: Vieira, Francisco Afonso Evangelista

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652850594?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Vieira%2C+Francisco+Afonso+Evangelista&rft.aulast=Vieira&rft.aufirst=Francisco+Afonso&rft.date=1990-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=An+evaluation+of+the+Brazilian+policies+for+science+and+technology+in+the+light+of+theories+of+development%3A+1960-1985+period&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Vieira%2C+Francisco+Afonso+Evan gelista&rft.aulast=Vieira&rft.aufirst=Francisco+Afonso&rft.date=1990-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=An+evaluation+of+the+Brazilian+policies+for+science+and+technology+in+the+light+of+theories+of+development%3A+1960-1985+period&rft.issn=&rft_id=info:doi/

Subject: Latin American Studies; Public policy

Classification: 0550: Latin American Studies; 0630: Public policy

Identifier / keyword: Social sciences, Brazil

Title: An evaluation of the Brazilian policies for science and technology in the light of theories of development: 1960-1985 period

Number of pages: 256

Publication year: 1990

Degree date: 1990

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31275

ProQuest document ID: 1652850594

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652850594?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
1990**

Database: ProQuest Dissertations & Theses Global

Document 21 of 23

**The changing role of scientists and technologists in defense
policy creation**

Author: Kanauka, Algirdas Vincas

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652842073?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kanauka%2C+Algirdas+Vincas&rft.aulast=Kanauka&rft.aufirst=Algirdas&rft.date=1988-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=The+changing+role+of+scientists+and+technologists+in+defense+policy+creation&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Kanauka%2C+Algirdas+Vincas&

;rft.aulast=Kanauka&rft.aufirst=Algirdas&rft.date=1988-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=The+changing+role+of+scientists+and+technologists+in+defense+policy+creation&rft.issn=&rft_id=info:doi/

Subject: Public policy; Military studies

Classification: 0630: Public policy; 0750: Military studies

Identifier / keyword: Social sciences

Title: The changing role of scientists and technologists in defense policy creation

Number of pages: 210

Publication year: 1988

Degree date: 1988

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: D.P.A.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31208

ProQuest document ID: 1652842073

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1652842073?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
1988**

Database: ProQuest Dissertations & Theses Global

Document 22 of 23

**THE EMERGENCE OF NEW COMPETITION IN THE AMERICAN
PETROLEUM INDUSTRY BEFORE 1911**

Author: Andreano, Ralph Louis

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/301857172?accountid=14709>

Abstract: None available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Andreano%2C+Ralph+Louis&rft.aulast=Andreano&rft.aufirst=Ralph&rft.date=1960-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=THE+EMERGENCE+OF+NEW+COMPETITION+IN+THE+AMERICAN+PETROLEUM+INDUSTRY+BEFORE+1911&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Andreano%2C+Ralph+Louis&rft.aulast=Andreano&rft.aufirst=Ralph&rft.date=1960-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=THE+EMERGENCE+OF+NEW+COMPETITION+IN+THE+AMERICAN+PETROLEUM+INDUSTRY+BEFORE+1911&rft.issn=&rft_id=info:doi/

Subject: Economic history; Energy

Classification: 0509: Economic history; 0791: Energy

Identifier / keyword: Social sciences, Applied sciences

**Title: THE EMERGENCE OF NEW COMPETITION IN THE
AMERICAN PETROLEUM INDUSTRY BEFORE 1911**

Pages: 429 p.

Number of pages: 429

Publication year: 1960

Degree date: 1960

School code: 0163

Source: DAI 21/09, p. 2524, Mar 1961

Place of publication: Ann Arbor

Country of publication: United States

University/institution: Northwestern University

University location: United States -- Illinois

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 6006530

ProQuest document ID: 301857172

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/301857172?accountid=14709>

Copyright: Copyright UMI - Dissertations Publishing 1960

Database: ProQuest Dissertations & Theses Global

Document 23 of 23

Sociological thought of Leonard T. Hobhouse

Author: Owen, John E.

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1655602018?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Owen%2C+John+E.&rft.aulast=

Owen&rft.aufirst=John&rft.date=1949-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=Sociological+thought+of+Leonard+T.+Hobhouse&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Owen%2C+John+E.&rft.aulast=Owen&rft.aufirst=John&rft.date=1949-01-01&rft.volume=&rft.issue=&rft.spage=&rft.isbn=&rft.btitle=&rft.title=Sociological+thought+of+Leonard+T.+Hobhouse&rft.issn=&rft_id=info:doi/

Subject: Social research

Classification: 0344: Social research

Identifier / keyword: Social sciences

Title: Sociological thought of Leonard T. Hobhouse

Number of pages: 380

Publication year: 1949

Degree date: 1949

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31705

ProQuest document ID: 1655602018

Table of contents

1. Cotton, fire, and dreams: The Robert Findlay iron works and heavy industry in Macon, Georgia, 1839-1912

Document 1 of 1

Cotton, fire, and dreams: The Robert Findlay iron works and heavy industry in Macon, Georgia, 1839-1912

Author: Davis, Robert Scott, Jr

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/304237059?accountid=14709>

Abstract: The slavery-based plantation economy of the Old South depended upon the technical progress of the era to survive and prosper. However, at the same time, many southerners opposed industrialization as northern, potentially abolitionist, and a threat to southern society. Scottish-born but northern-trained Robert Findlay (1808-1859) became one of the few genuinely successful industrialists of the Old South by taking advantage of the market for agricultural technology while ingratiating himself into the society of his adopted home of Macon, Georgia. Macon served as one of the South's few machinery manufacturing cities and became the center of the South's largest railroad and river transportation network. Findlay found ways of surviving and prospering despite the economic and political controversies of the Deep South from 1836-1859. After his death, his foundry became the main installation of the Confederacy's Macon Arsenal, only to succumb to the post work economic pressures on the southern states. This thesis also discusses foundry work before the Civil War; the early history of Macon, Georgia; the Monroe Railroad; and first major manufacturing in Georgia.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-

8&#amp;rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&#amp;rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&#amp;rft.genre=dissertations+%26+theses&#amp;rft.jtitle=&#amp;rft.atitle=&#amp;rft.au=Davis%2C+Robert+Scott%2C+Jr&#amp;rft.aulast=Davis&#amp;rft.aufirst=Robert&#amp;rft.date=1996-01-

01&#amp;rft.volume=&#amp;rft.issue=&#amp;rft.spage=&#amp;rft.isbn=9780591227185&#amp;rft.btitle=&#amp;rft.title=Cotton%2C+fire%2C+and+dreams%3A+The+Robert+Findlay+iron+works+and+heavy+industry+in+Macon%2C+Georgia%2C+1839-1912&#amp;rft.issn=&#amp;rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&#amp;ctx_enc=info:ofi/enc:UTF-

8&#amp;rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&#amp;rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&#amp;rft.genre=dissertations+%26+theses&#amp;rft.jtitle=&#amp;rft.atitle=&#amp;rft.au=Davis%2C+Robert+Scott%2C+Jr&#amp;rft.aulast=Davis&#amp;rft.aufirst=Robert&#amp;rft.date=1996-01-

01&#amp;rft.volume=&#amp;rft.issue=&#amp;rft.spage=&#amp;rft.isbn=9780591227185&#amp;rft.btitle=&#amp;rft.title=Cotton%2C+fire%2C+and+dreams%3A+The+Robert+Findlay+iron+works+and+heavy+industry+in+Macon%2C+Georgia%2C+1839-1912&#amp;rft.issn=&#amp;rft_id=info:doi/

Subject: American history; Agricultural engineering; Labor relations; Steel industry; Studies

Classification: 0337: American history; 0539: Agricultural engineering; 0629: Labor relations

Identifier / keyword: Social sciences, Applied sciences

Title: Cotton, fire, and dreams: The Robert Findlay iron works and heavy industry in Macon, Georgia, 1839-1912

Pages: 241 p.

Number of pages: 241

Publication year: 1996

Degree date: 1996

School code: 0005

Source: MAI 35/03, p. 694, Jun 1997

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9780591227185, 0591227185

Advisor: Doss, Harriet Amos

**University/institution: The University of Alabama at
Birmingham**

University location: United States -- Alabama

Degree: M.A.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 1382739

ProQuest document ID: 304237059

Table of contents

1. Image objects: An archaeology of 3D computer graphics, 1965-1979

2. Research and Racial Hierarchy Creation: A Return to Scientific Racism

3. Origins and interpretations of selected sociological concepts of Max Weber

Document 1 of 3

Image objects: An archaeology of 3D computer graphics, 1965-1979

Author: Gaboury, Jacob

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

Abstract: Image Objects: An Archaeology of 3D Computer Graphics, 1965-1979 explores the early history of 3D computer graphics and visualization with a focus on the pioneering research center at the University of Utah. The University of Utah is one of the most significant sites in the history of computing, but has been largely neglected by historians and digital media scholars alike. From 1965-1979 almost all fundamental principals of modern computer graphics were developed by Utah graduates and faculty, many of whom went on to found some of the most important research and technical organizations of the past fifty years, including Adobe, Pixar, Netscape, and Atari. The project begins with this history, but looks to pull apart familiar narratives of invention and innovation by engaging the challenges and failures of early research into computer visualization. As such the project is organized around a set of technical and cultural objects of particular significance to the early history of graphics. Chapter One introduces the project and its research site and the University of Utah, discussing methods, archives, and the history of the Utah program. Chapter Two offers a meditation on questions of vision and visibility, structured around the development of the "hidden surface algorithm" for graphical display from 1965-1969. Chapter Three offers an analysis of memory and materiality through the lens of early graphics hardware, with a focus on the development of the first commercial

framebuffer in 1973. Chapter Four investigates objects and ontology through an analysis of the "Utah Teapot", a famous graphical object standard developed in 1974 and used widely in contemporary software, film, and research demonstrations. Finally, Chapter Five offers an analysis of language and text through an exploration of the object-oriented paradigm first conceived by Alan Kay at the University of Utah. By looking to the first moments in which visual computing is made possible this project critiques popular narratives that view the digital image as an extension of earlier visual forms, arguing instead that the development of 3D interactive graphics marks the moment at which computer science develops a concern for ontology and the simulation of objects in the world. Ultimately the project seeks to make the familiar strange, offering a theory of the digital image that refuses a genealogy of the visible.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Gaboury%2C+Jacob&rft.aulast=Gaboury&rft.aufirst=Jacob&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321302868&rft.btitle=&rft.title=Image+objects%3A+An+archaeology+of+3D+computer+graphics%2C+1965-1979&rft.issn=&rft_id=info:doi/

Subject: Communication; Science history; Film studies

Classification: 0459: Communication; 0585: Science history; 0900: Film studies

Identifier / keyword: Social sciences, Communication and the arts, 3 dimensional, Computer graphics, Graphics, History, Media archaeology, Utah

Title: Image objects: An archaeology of 3D computer graphics, 1965-1979

Number of pages: 271

Publication year: 2014

Degree date: 2014

School code: 0146

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321302868

Advisor: Galloway, Alexander

Committee member: Gitelman, Lisa, Lenoir, Timothy, Robles-Anderson, Erica, Parikka, Jussi

University/institution: New York University

Department: Media, Culture, and Communication

University location: United States -- New York

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3643021

ProQuest document ID: 1635305045

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1635305045?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 2 of 3

Research and Racial Hierarchy Creation: A Return to Scientific Racism

Author: Love, James William

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636504725?accountid=14709>

Abstract: The racial bias embedded in scientific inquiry is a seldom explored topic; however, this project employed a qualitative coding methodology to develop themes reflective of racism in three areas of scientific inquiry: Biomedical, Behavioral, and Social. The results of this analysis reveal racial hierarchy creation remains an ever-present feature of scientific inquiry, although taking a more subtle and hidden form. This racism is primarily evident through the use of race as an etiological variable and attempts to indict "cultural differences" as justification for differences. This study reveals that despite being educated analysts, the

work of scholars and scientists alike is largely a reflection of the racist society in which they are embedded.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Love%2C+James+William&rft.aulast=Love&rft.aufirst=James&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321320152&rft.btitle=&rft.title=Research+and+Racial+Hierarchy+Creation%3A+A+Return+to+Scientific+Racism&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rft_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Love%2C+James+William&rft.aulast=Love&rft.aufirst=James&rft.date=2014-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=9781321320152&rft.btitle=&rft.title=Research+and+Racial+Hierarchy+Creation%3A+A+Return+to+Scientific+Racism&rft.issn=&rft_id=info:doi/

Subject: Demography

Classification: 0938: Demography

Identifier / keyword: Social sciences, Color blind racism, Institutional discrimination, Race, Science and race

Title: Research and Racial Hierarchy Creation: A Return to Scientific Racism

Number of pages: 121

Publication year: 2014

Degree date: 2014

School code: 0032

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

ISBN: 9781321320152

Advisor: Kposowa, Augustine

Committee member: Chase-Dunn, Christopher, Guenther, Katja

University/institution: University of California, Riverside

Department: Sociology

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: 3643984

ProQuest document ID: 1636504725

Document URL:

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1636504725?accountid=14709>

**Copyright: Copyright ProQuest, UMI Dissertations Publishing
2014**

Database: ProQuest Dissertations & Theses Global

Document 3 of 3

**Origins and interpretations of selected sociological
concepts of Max Weber**

Author: Nahrendorf, Richard Otto

<http://pitt.idm.oclc.org/login?url=http://search.proquest.com/docview/1655602543?accountid=14709>

Abstract: Abstract not available.

Links:

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Nahrendorf%2C+Richard+Otto&rft.aulast=Nahrendorf&rft.aufirst=Richard&rft.date=1948-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=Origins+and+interpretations+of+selected+sociological+concepts+of+Max+Weber&rft.issn=&rft_id=info:doi/

http://RT4RF9QN2Y.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info:ofi/enc:UTF-8&rfr_id=info:sid/ProQuest+Dissertations+%26+Theses+Global&rft_val_fmt=info:ofi/fmt:kev:mtx:dissertation&rft.genre=dissertations+%26+theses&rft.jtitle=&rft.atitle=&rft.au=Nahrendorf%2C+Richard+Otto&rft.aulast=Nahrendorf&rft.aufirst=Richard&rft.date=1948-01-01&rft.volume=&rft.issue=&rft.spage=&rft.t.isbn=&rft.btitle=&rft.title=Origins+and+interpretations+of+selected+sociological+concepts+of+Max+Weber&rft.issn=&rft_id=info:doi/

t.isbn=&rft.btitle=&rft.title=Origins+and+interpretations+of+selected+sociological+concepts+of+Max+Weber∓rft.issn=&rft_id=info:doi/

Subject: Social research

Classification: 0344: Social research

Identifier / keyword: Social sciences

Title: Origins and interpretations of selected sociological concepts of Max Weber

Number of pages: 398

Publication year: 1948

Degree date: 1948

School code: 0208

Source: DAI-A 76/03(E), Sep 2015

Place of publication: Ann Arbor

Country of publication: United States

University/institution: University of Southern California

University location: United States -- California

Degree: Ph.D.

Source type: Dissertations & Theses

Language: English

Document type: Dissertation/Thesis

Dissertation/thesis number: DP31703

ProQuest document ID: 1655602543

