

Michael Castelle

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Centre for Interdisciplinary Methodologies

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EDUCATION

2017 (Ph.D) Sociology, University of Chicago

Dissertation: "Transaction and Message: From Database to Marketplace, 1970-2000"

Committee: Andrew Abbott (Chair)

Adrian Johns (History / Conceptual and Historical Studies of Science)

Andreas Glaeser (Sociology)

2010 M.A., Sociology, University of Chicago

2001 Sc.B., Computer Science, Brown University

PUBLICATIONS

Peer-Reviewed Articles

- 2018 "The Linguistic Ideologies of Deep Abusive Language Classification". 2nd Abusive Language Workshop, EMNLP (Empirical Methods in Natural Language Processing).
- 2016 "Where do Electronic Markets Come From? Regulation and the Transformation of Financial Exchanges" (1st author with Yuval Millo (University of Leicester), Daniel Beunza (London School of Economics), and David Lubin (University of Chicago)). *Economy and Society*, 45(2), 166-200.
- 2013 "Relational and Non-Relational Models in the Entextualization of Bureaucracy." *Computational Culture* (3).

Other Edited Work

- 2016 "Marketplace platforms or exchanges? Financial metaphors for regulating the collaborative economy". *Economic Sociology: European Electronic Newsletter*, Vol. 17, No. 3, July 2016.

Work in Progress

- "Deep Learning in its Contexts: Hierarchy, Temporality, and Interactivity".
- "Making Markets Durable: The Transaction Concept in Finance."
- "The Flow Paradigm: Events, Streams and the Temporalities of Big Data."

TEACHING EXPERIENCE

Interdisciplinary Approaches to Machine Learning, University of Warwick

Spring 2018

Big Data: Hype or Revolution?, University of Warwick

Fall 2018, Fall 2017

Computing and Society, University of Chicago

Spring 2016

Computing for the Social Sciences, University of Chicago

Fall/Winter 2011-2015

Transformative Technologies: Computing, Illinois Institute of Technology

Spring 2012

HONORS, GRANTS AND FELLOWSHIPS

- 2015-2016 Park Lectureship, University of Chicago, Department of Sociology
- 2015 Cambridge University Press Doctoral Colloquium, Business History Conference

- 2014 Arthur L. Norberg Travel Grant, Charles Babbage Institute, University of Minnesota
- 2014 Nicholson Center for British Studies Fellowship, University of Chicago
- 2013 Data Science for Social Good Fellowship, University of Chicago
- 2008 Social Sciences Doctoral Fellowship, University of Chicago

CERTIFICATES

- 2016-2017 Deep Learning Certificate 1, University of San Francisco (<http://www.fast.ai/>)

PRESENTATIONS

Selected Conference Presentations

- 2018 “Deep Learning and the Coming Crisis Opportunity of Social Theory”, *The Thinking Machine: Interdisciplinary Perspectives on Neural Networks*, Aarhus Institute of Advanced Studies (AIAS), 22nd August 2018.
- 2018 “Deep Learning and the Coming Crisis of Social Theory”, *Beyond Code and Craft*, Franke Institute for the Humanities, University of Chicago, 28th April 2018.
- 2017 “Brokers, Queues, and Flows: Techniques of Financialization and Consolidation, 1985-2005”. To be presented at the SIGCIS (Special Interest Group on Computers, Information and Society) conference “Command Lines: Software, Power, and Performance”, Computer History Museum, Mountain View, CA, March 18-19 2017.
- 2016 “The Platform as Exchange”. Presented at the 2016 biennial Internet, Politics, and Policy (IPP) conference, "The Platform Society", Oxford Internet Institute, September 2016.
- 2016 "Big Data or Big Codata? Flows in Historical and Contemporary Data Practices". Presented at Society for Social Studies of Science (4S)/EASST, Barcelona, September 2016.
- 2016 “Platforms or Exchanges? Financial Metaphors for Regulating the Collaborative Economy”. To be presented at Society for the Advancement of Socio-Economics (SASE) Annual Conference, Berkeley, CA, June 2016.
- 2014 “Making Markets Durable: Transaction Processing in Finance and Commerce.” SIGCIS (Special Interest Group for Computers, Information and Society) Workshop at SHOT (Society for the History of Technology), Dearborn, MI.
- 2014 “Where do Electronic Markets Come From? Regulation and The Transformation of Financial Exchanges”. Society for the Advancement of Socio-Economics (SASE) Annual Conference, Chicago, IL.
- 2014 “Where the ‘Robots’ Dominate: Lessons from Automated Trading”. Autonomy and Automation: Robotics, AI, and the Digital Cultural Future, DCRC/UWE Bristol, UK.
- 2013 “The Transaction Concept: Concurrency and Durability for Financial Markets”. Sociology of Market Microstructure Workshop, The New York Stock Exchange, New York NY.
- 2013 “Recontextualization and Rationalization in Open Data”. Penser l'écosystème des données: Les enjeux scientifiques et politiques des données numériques. Institut des Sciences de la Communication du CNRS (ISCC), Paris, France.
- 2013 “The Transaction Abstraction: a Prerequisite for Financialization”. American Sociological Association Annual Meeting, New York, NY.
- 2012 “Relational and Non-Relational Models in the Virtualization of Bureaucracy”. The Lived Logics of Database Machinery: a workshop organised by Computational Culture, London, UK.

Invited Talks

- 2018 “Deep Learning and the Coming Crisis of Theoretical Social Science”, *Institut national de la recherche scientifique* (INRS), Montreal, Canada, 23rd April 2018.
- 2016 "Distinguishing Big Codata." Centre for Interdisciplinary Methodologies, University of Warwick, March 2nd, 2016.
- 2014 “Data Representation in the 1970s: Consequences for Quantitative Social Science”. Centre for Interdisciplinary Methodologies, University of Warwick, Coventry UK
- 2014 “From Do-Undo to Global Finance”. Centre for Interdisciplinary Methodologies, University of Warwick, Coventry UK

Professional Memberships

SIGCIS (Special Interest Group for Computers, Information and Society)

Society for the Advancement of Socio-Economics (SASE)

Society for the History of Technology

Technical Skills

Programming Languages: Python, R, SQL, Haskell, JavaScript/JQuery, PHP, C, Java, C++.

Operating Systems: OS X, Linux.

Software Tools/Libraries: PostgreSQL/MySQL, ArcGIS, scipy, pylab/matplotlib, Django, NLTK, Hadoop/Pig, HTML/CSS, GTK+ 2, VTK/ITK, Matlab, SPSS, LaTeX, OpenGL.

Languages Read

French (fair), Spanish (fair)

Revised 28th September, 2018