

MICHAEL P. SIMEONE, PHD

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EDUCATION

2003 B.A., English, Hendrix College

2005 M.A., English, University of Illinois at Urbana-Champaign

2011 Ph.D., English, University of Illinois at Urbana-Champaign

2013 Postdoctoral Fellowship, Informatics, Illinois Informatics Institute

Dissertation: “*American Gadgets: Cybernetics, Consumer Electronics, and Twentieth-Century US Fiction*”

Director: Professor Robert Markley. Committee: Professors Anustup Basu, Laura Mandell, Cary Nelson, Spencer Schaffner

My dissertation examines consumer technologies as a post cybernetic paradigm of human-technology interaction. Personal information technologies, or “gadgets,” successfully create a technique of knowing technology that extends science fiction from merely a literary category into a way of understanding technoscientific novelty in broader U.S. culture. Traced primarily through fiction, film, and advertising media, gadgets allow authors such as Thomas Pynchon, William S. Burroughs, Neal Stephenson, Pat Cadigan, and Richard Powers to explore the complexities of humankind’s responses to technological and digital innovation, and they provide the means for U.S. popular culture to narrative the seemingly infinite quantities of data that structure everyday life. Through gadgets, values of individuality, consumerism, and citizenship do not collapse under the weight of cybernetic systems that erode the distinction between human and non-human intelligence.

PUBLICATIONS

Simeone, Michael, “Resilient Observation: Toward Transformational Research among Environmental Humanities and Sciences.” Forthcoming in *Resilience*, Fall (2017)

Simeone, Michael, Advait Gundavajhala Venkata Koundinya, Anandh Ravi Kumar, and Ed Finn, “Towards a Poetics of Strangeness: Experiments in Classifying Language of Technological Novelty.” *Cultural Analytics*, 9/8/2017. DOI: 10.22148/16.015

Simeone, Michael, “Why We Will Not be Posthuman: Consumer Electronics, Cognition, and Informatics in Adaptations of Philip K. Dick’s Short Fiction.” *Configurations*, Winter 2013

Simeone, Michael, Jennifer Guiliano, Rob Kooper, and Peter Bajcsy, “Digging into Data Using New Collaborative Infrastructures Supporting Humanities-based Computer Science Research.” *First Monday* 16.5 (2011)

Simeone, Michael, "Plasticity's Central Canon': Plastics, *Gravity's Rainbow*, and the Practice of Science Fiction." *Genre* 43. 1&2 (2010) 115-136

Simeone, Michael, "Aaron Kramer's Television Logic: Denmark Vesey and Cold War Media," published on the *Modern American Poetry Site* (MAPS) at http://www.english.uiuc.edu/maps/poets/g_l/kramer/vesey.html

SCIENTIFIC AND POSTER PRESENTATIONS:

"Energy Leadership and Informatics" NEPTUNE Program Review, November 2016, Davis, California, Michael Simeone, Jaqueline Hettel, Clark Miller, Jared Connor, Steffan Nelson.

"Large Scale Automated Analysis of Moving Images," 2014 Extreme Science and Engineering Discovery Environment, July 2014, Atlanta, GA, Virginia Kuhn, Michael Simeone, Luigi Marini, Alan Craig

"Large Scale Video Analytics: On-Demand, Iterative Inquiry for Moving Image Research," Microsoft Research eScience Workshop, October 2012, Chicago, IL, Virginia Kuhn, Michael Simeone, David Bock, Ritu Arora, Alan Craig, and Kevin Franklin

"Quantifying Historical Geographic Knowledge from Digital Maps," Microsoft Research eScience Workshop, October 2010, Berkeley, CA,
- Tenzing Shaw, Michael Simeone, Robert Markley, and Peter Bajcsy,
<http://research.microsoft.com/en-us/events/escience2010/default.aspx>

"Supporting Scientific Discoveries to Answer Art Authorship Related Questions Across Diverse Disciplines and Geographically Distributed Resources", Peter Bajcsy, Rob Kooper, Luigi Marini, Tenzing Shaw, Jennifer Guiliano, Anne D. Hedeman, Robert Markley, Michael Simeone, Natalie Hanson, Microsoft Research eScience Workshop, October 2010, Berkeley, CA,
<http://research.microsoft.com/en-us/events/escience2010/default.aspx>

"Comparison of Historical Maps," Imaging Without Borders, October 2010, Beckman Institute, University of Illinois at Urbana-Champaign, IL, Tenzing Shaw, Michael Simeone, Robert Markley, and Peter Bajcsy

SELECTED CONFERENCE PRESENTATIONS AND INVITED TALKS

"Threat and the Onset of Black Swan Events: Coastal California," Conference Presentation at Interservice / Industry Training, Simulation and Education Conference (I/ITSEC) in December of 2016

"From Cyberinfrastructure to Decision Design in the Digital Humanities," Invited Lecture, Hamilton College, April 2015

"Digital Humanities as Service Science," Keynote, International Symposium for Grids

and Clouds, March 2015

"From Images to Data and Back Again: Using Images and Visualizations in Digital Humanities Research," Invited lecture at Simmons College for Boston Digital Humanities Consortium, March 2013

"Broad Data: Defining Computational Humanities" Invited lecture at Clemson University, August 2012

"Broad Data: Humanities in High-Performance Computing," Invited lecture at Cornell University (co-presented with Kevin Franklin), January 2012

"Digging into Authorship Data: Computer Vision in Multidisciplinary Collaboration," Humanities, Arts, Science and Technology Advanced Collaboratory (HASTAC) Conference 2012

DIGITAL HUMANITIES PROJECT LINKS

-Visualization notebook for the humanities research:

<http://isda.ncsa.illinois.edu/~mpsimeon/>

-A network/time lapse view of a topic model (click on upper left title to toggle)<http://isda.ncsa.illinois.edu/~mpsimeon/time/new.html>

-18thConnect: <http://www.18thconnect.org/>

-Great Lakes map image analysis: <http://dl.dropbox.com/u/1707493/Maps.ppt>

-Great Lakes, map authorship, and historical climatology:

<http://dl.dropbox.com/u/1707493/hallene%20gateway%202.ppt>,
isda.ncsa.illinois.edu/~mpsimeon/

-Visualizing Probabilistic Topic Models: isda.ncsa.illinois.edu/~mpsimeon/topics/FDE/,
and

<http://tedunderwood.com/2012/12/02/visualizing-topic-models-with-force-directed-graphs/>

-Nexus Lab for Transdisciplinary Informatics: Nexuslab.org

-Personal Blog: Suffenus.wordpress.com

HONORS & AWARDS

Member Phi Beta Kappa, Inducted spring 2003

Recipient of Mildred E. and William E. Winter Fellowship, 2005-2006

Summer Research Fellowship, 2006

Dissertation Research Fellowship, 2008

Dissertation Research Fellowship, 2009

List of Teachers Rated Excellent, 2004-2008: nine consecutive semesters

RESEARCH AND TEACHING INTERESTS

Digital humanities, visualization programming in the context of narration and decision

design, social network analysis, text mining, humanities research and supercomputing resources, collaborations across the humanities and sciences, American digital culture, Postwar American fiction and cinema, cybernetics, informatics, history of consumer technologies, science fiction, cinema studies, philosophy of mind

DIGITAL HUMANITIES/INFORMATICS EXPERIENCE

2013-Present: Director, IHR Nexus Lab for Digital Humanities and Transdisciplinary Informatics

- Conducted research on social media conversations in Twitter using NodeXL and D3.js
- Formulated an active content management system/curation software workflow for specific use by humanists to make contributions to scientific conversations on sustainability
- Established and taught a series of regular working groups for faculty based around skills in digital humanities, including text mining and content management systems
- Consulted on faculty research as both advisor and collaborator
- Established partnerships with city governments and non-profit research think tanks

2011-2013: Research Fellow, Informatics, Institute for Computing in Humanities, Arts, and Social Science, University of Illinois at Urbana-Champaign.

2011-2013: Assistant Director for Research and Interdisciplinary Studies, Institute for Computing in Humanities, Arts, and Social Science, University of Illinois at Urbana-Champaign

- Conducted research using topic modeling methods in Java and visualizations in JavaScript using D3.js
- Designed solution for HPC-based humanities exploration of large-scale video archives
- Collaborated with experts in social network analysis, automated content analysis, content management, human-computer interaction, automated video analytics, and virtual environments
- Co-Directed a \$250,000 NEH Institute for Advanced Topics in Digital Humanities Grant
- Designed curriculum for online program in humanities computing
- Collaborated with humanities faculty to design algorithm and database solutions for research in the humanities and arts
- Conceived and managed the Scalable Research Challenge, an initiative to engage faculty and create new projects that leverage both computational thinking and traditional research methodologies
- Contributed to the long-term research agenda of ARTCA (Advanced Research and Technology Consortium for the Americas)
- Coordinated research with international team members
- Worked with the Illinois Informatics Institute to develop a curriculum for a Humanities, Arts, and Social Science Advanced Computing Certificate

2010: Project Manager, Midwest Maps and Climate Project

- Conducted original historical and literary research, data collection, and data analysis for the study of Great Lakes historical climatology
- Coordinated collaborative research among historians, literature scholars, atmospheric scientists, private collectors, and engineers

2009-present: Project Manager and Content Specialist/Analyst, Digging into Data Group, University of Illinois

- Coordinated research teams at Michigan State and University of Sheffield campuses
- Collaborated with image processing specialists to develop research plan for collections of digitized seventeenth and eighteenth-century maps.
- Consulted with multiple rare book and map collections to digitize images and organize project dataset (upcoming Great Lakes Map Collection soon available through University of Illinois Library)
- Worked with both humanities and computational specialists to identify mutually beneficial research goals
- Managed and contributed to research publications

2008-present: Director of Development, 18th Connect:

- Collaborated with directors from University of Illinois and Miami of Ohio to formulate project mission, including the development of novel optical character recognition software (OCR)
- Supervised and coordinated project research assistants
- Served as key technical liaison between 18th Connect and partner project, Networked Infrastructure for Nineteenth-century Electronic Scholarship (NINES)
- Consulted with programmers and computer scientists to produce a phased development plan for developing an open source OCR application specifically tailored for eighteenth century typefaces for the 2009-2010 and beyond
- Conducted training of image recognition framework tools (GAMERA) for project members
- Co-wrote successful grant application for 500,000 hours of supercomputing resources from the Institute for Computing in the Humanities and the Social Sciences
- Organized collaborations of stakeholders from disciplines such as library science, computational linguistics, and computer science
- Worked with developers of semantic content repositories in order to pave the way for future research and grant writing for persistent digital tools
- Negotiated with the National Center for Supercomputing Applications (NCSA) to secure further hardware support for current and future work

Summer 2008: Guest Instructor and Participant at NINES Summer Institute, Miami of Ohio

- Conducted class on the basics of Adobe Photoshop CS2
- Oversaw design lab hours
- Attended seminars on database construction, XML encoding (including TEI markup), and digital project management
- Recruited and met with potential partners for 18th Connect
- Met with NINES leadership for project planning between NINES and 18th Connect
- Provided consultation in the development of NINES interface revisions
- Worked with specialists to conduct user interface studies using eye-tracking software (SpotOn!)

2006: Seminar in Experimental Critical Theory, at University of California, Irvine

- Attended seminars on digital humanities research methods
- Participated in labs for game design, web-based multimedia journals, and interactive media

TEACHING EXPERIENCE

Instructor: Science Fiction in American Literature: Department of English, University of Illinois, Urbana-Champaign, IL. Fall 2008. Selected texts and designed own syllabus, planned own classes, and taught majors and undergraduate students of all levels. Selected for Incomplete List of Instructors Rated Excellent

Instructor: Introduction to Film: Department of English, University of Illinois, Urbana-Champaign, IL. Spring 2006-Spring 2007. Adapted staff syllabus, planned own classes, and taught freshmen, film majors, and other senior undergraduate students. Taught six sections. Selected for Incomplete List of Instructors Rated Excellent for each section

Instructor: Introduction to Film: Department of English, University of Illinois, Urbana-Champaign, IL.. Fall 2006. Taught staff syllabus to freshman undergraduate students and majors. Taught two sections. Selected for Incomplete List of Instructors Rated Excellent for both

Instructor: Introduction to Rhetoric, Department of English, University of Illinois, Urbana-Champaign, IL. Fall 2003 and Spring 2004. Selected texts and designed own syllabus and class plans; taught freshmen undergraduate students. Taught two sections. Selected for Incomplete List of Instructors Rated Excellent for Spring 2004

Teaching Assistant: Introduction to Fiction: Department of English, University of Illinois, Urbana-Champaign, IL. Fall 2004. Lead select discussions for a classroom of 200 students, graded course materials

SERVICE & APPOINTMENTS

Research Fellow in Informatics, Illinois Informatics Institute, 2011-present

Assistant Editor, *American Literary History*, University of Illinois, Fall 2009-present

Content Specialist, Digging into Data Group, University of Illinois, Fall 2009-present

Director of Development, 18thConnect, 2008-present

Communications Officer, University of Illinois Graduate Employees' Organization (GEO), academic years 2004-2008

Assistant Organizer, "Thinking Affect: Memory, Language, Cognition." Fall 2007, University of Illinois

LANGUAGES

Latin (Reading)

French (Reading)

Javascript

Python

PROFESSIONAL ASSOCIATIONS

Society for Literature, Science, and the Arts (SLSA)

Modern Language Association (MLA)

REFERENCES

Robert Markley, Department of English, University of Illinois at Urbana-Champaign
rmarkley@illinois.edu

Kathleen Woodward, Department of English, Simpson Center for Humanities
University of Washington
kw1@u.washington.edu

Laura Mandell, Department of English, Director of the Initiative for Digital Humanities,
Media, and Culture
Texas A&M University
Director, 18thConnect
mandell@tamu.edu