

Jessica Marie Otis

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Education

- 2013 Ph.D. in History, University of Virginia
Dissertation: "By the Numbers: Understanding the World in Early Modern England"
- 2007 MA in History, University of Virginia
Thesis: "The Numbers Game: Numeracy and the Dissemination of Knowledge in Early Modern England"
- 2005 MS in Mathematics, University of Virginia
- 2003 BS in Mathematics and History, College of William and Mary
Thesis: "Bassets and Plantagenets: The Education of an Aristocratic Woman, 1533-1540"
Phi Beta Kappa and Monroe Scholar
Summa Cum Laude with High Honors

Employment Experience

- Carnegie Mellon University: University Libraries
Digital Humanities Specialist, 2016-present
CLIR-DLF Postdoctoral Fellow, 2014-16 [jointly with the Department of English]
- Carnegie Mellon University: Department of History
Visiting Assistant Professor, 2017-2020
79-775 Doing Digital History
Adjunct Professor, 2015
79-239 Shakespeare's England
- Carnegie Mellon University: Department of English
CLIR-DLF Postdoctoral Fellow, 2014-16 [jointly with the University Libraries]
Project: *Six Degrees of Francis Bacon*
76-901 Independent Study in Literary and Cultural Studies
- Virginia Polytechnic Institute and State University: Department of History
Adjunct Professor, 2013-14 [3, 3 teaching load]
HIST 1056 Introduction to European Civilization
HIST 3324 The Medieval World
HIST 3424 Tudor and Stuart England

Peer-Reviewed Publications

Jessica Marie Otis, "What's In a Name? *Six Degrees of Francis Bacon* and Named-Entity Recognition," in *New Technologies in Medieval and Renaissance Studies Vol 2*, ed. by Matt Davis and Colin Wilder (Iter and the Arizona Center for Medieval and Renaissance Studies, forthcoming) [under review].

Meaghan Brown, Jessica Otis, and Paige Morgan, "Identifying Early Modern Books: Citation Practices in Bibliographic and Early Modern Studies," *Archive Journal* (November 2017).

Hannah Rasmussen, Brian Croxall, and Jessica Otis, "Exploring How and Why Digital Humanities is Taught in Libraries," in *A Splendid Torch: Learning and Teaching in Today's Academic Libraries*, edited by John Maclachlan, Christa Williford, and Jodi Reeves Eyre (CLIR, September 2017).

John Ladd, Jessica Otis, Christopher N. Warren, and Scott Weingart, "Exploring and Analyzing Network Data with Python," *Programming Historian* (September 2017).

Jessica Otis, "'Set Them To the Cyphering Schoole': Reading, Writing and Arithmetical Education, circa 1540-1700," *Journal of British Studies* 56, no. 3 (July 2017).

Jessica Marie Otis, "'Sportes and Pastimes, done by Number': Mathematical Games in Early Modern England," in *Playthings in Early Modernity: Party Games, Word Games, Mind Games*, ed. by Allison Levy (Medieval Institute Publications: 2017).

Alison Langmead, Jessica M. Otis*, Christopher N. Warren, Scott B. Weingart, and Lisa D. Zilinski, "Towards Interoperable Network Ontologies for the Digital Humanities," *International Journal of Humanities and Arts Computing* 10, no. 1 (2016): 22-35, doi: 10.3355/ijhac.2016.0157 [*corresponding author].

Christopher N. Warren, Daniel Shore, Jessica Otis, Lawrence Wang, Mike Finegold, and Cosma Shalizi, "Six Degrees of Francis Bacon: A Statistical Method for Reconstructing Large Historical Social Networks," *Digital Humanities Quarterly* 10, no. 3 (2016), <http://www.digitalhumanities.org/dhq/vol/10/3/000244/000244.html>.

Select Grants and Fellowships

Andrew W. Mellon Foundation Grant, with Scott Weingart, Matt Burton, and Matt Lavin (\$60,000), 2017-19
Project: *Digits: a Platform to Facilitate the Production of Digital Scholarship*

Frank-Ratchye Fund for Arts @ the Frontier, with Christopher Warren and Scott Weingart (\$3,000), 2017
Project: *Six Degrees of Francis Bacon Design Sprint*

National Endowment for the Humanities Implementation Grant, with Christopher Warren and Daniel Shore of Georgetown University (\$325,000), 2016-18
Project: *Six Degrees of Francis Bacon*

XSEDE Research Request Grant, with Christopher Warren (valued at \$51,209.36), 2016-7
Project: *Six Degrees of Francis Bacon*

Andrew W. Mellon Foundation Microgrant, with Meaghan Brown of the Folger Shakespeare Library and Paige Morgan of the University of Miami (\$10,000), 2015-16
Project: *A Text By Any Other Citation: Identifying Early Modern Printed Books (IdEM B)*

Select Administrative Experience and University Service

Carnegie Mellon University: University Libraries

Digital Sciences, Humanities, Arts, Research and Publishing (dSHARP), Co-Founder 2017
Team Coordinator, 2016-present
Educational Coordinator, 2017-present

Faculty Senate, 2017-present

CLIR Postdoctoral Fellowship Hiring Committee Chair, 2017-present

Andrew W. Mellon Digital Humanities/TEL Grant Committee, 2016-present

Library Information for Teaching & Learning Services Group, 2016-present

Frankenstein 200 Committee, 2016-present

Digital Repository Task Force, 2015-present

CLIR Postdoctoral Fellowship Hiring Committee, 2016-17

Minimum Competencies Committee, 2016

Research Data Management Steering Committee, 2014-2016

Association for Computers and the Humanities

Annual Meeting Bid Team Coordinator, 2017

Annual Meeting Local Committee, 2017-present

Carnegie Mellon University: Department of English

Humanities Analytics Minor, Core Faculty, 2017-present

Digital Library Federation

CLIR-DLF Postdoctoral Fellowship Reviewer, 2016-present

Pedagogy Resource Sharing and Professional Skills Development Subgroup, 2016-present

Pedagogy Outreach and Collaboration Subgroup, 2016-present

Forum Local Committee, 2016-2017

Forum Program Committee, 2016-2017

Forum Scholarship Committee, 2016-2017

Pittsburgh Digital Humanities (PGH|DH), Co-Founder, 2016

Reading Group Organizer, 2017-present

Website Co-Manager, 2017-present

Pittsburgh Phi Beta Kappa Association

Treasurer, 2017-present

Select Public Papers and Presentations

- "Death by Numbers: Network Analysis and London's Bills of Mortality," Renaissance Society of America Annual Meeting, March 22, 2018.
- "Between Strategic Plan and Infrastructural Reality: Founding a Digital Research and Publishing Center at CMU," with Rikk Mulligan and David Scherer, Coalition for Networked Information Fall Membership Meeting, December 12, 2017.
- "Exploring How and Why Digital Humanities is Taught in Libraries," with Brian Croxall, Digital Library Federation Forum, November 24, 2017.
- "Community Meet Capacity: Growing Digital Scholarship Center," with Rikk Mulligan and Lisa Zilinski, Digital Library Federation Forum, November 23, 2017.
- "Name that Book: Identifying Digital Objects During Research and Discovery," with Meaghan Brown, Bibliography Among the Disciplines Conference, October 13, 2017.
- "Death by Numbers: Bills of Mortality in Early Modern London," Digital Humanities Annual Meeting, August 9, 2017.
- "Exploring How and Why Digital Humanities is Taught in Libraries," with Brian Croxall, Innovations in Digital Humanities Pedagogy Workshop, Digital Humanities Annual Meeting, August 8, 2017.
- "Six Degrees of Francis Bacon," with Christopher Warren, Daniel Shore, and Scott Weingart, invited talk/workshop at Early Modern Digital Agendas: Network Analysis, July 20, 2017.
- "Using Databases in Humanities Research: a Roundtable," Society for the History of Authorship, Reading, and Publishing Annual Meeting, June 10, 2017 [co-organizer].
- "DH in the Big Tent," Digital Humanities Summer Institute, June 5, 2017.
- "Early Modern Citations at the Intersection of Archives and the Internet," Society for the History of Authorship, Reading, and Publishing Annual Meeting, July 19, 2016 [co-organizer].
- "Six Degrees of Francis Bacon: A Project Showcase," Keystone Digital Humanities Conference, June 23, 2016.
- "Identifying Early Modern Printed Books," invited talk at Rochester University's Digital Humanities Institute for Mid-Career Librarians, May 26, 2016.
- "Six Degrees of Francis Bacon: Text Mining, Data Visualization, and the Archive," Mid-Atlantic Archives Conference, April 15, 2016.

- "From Provenance to Scratchwork: Marginalia in Early Modern Arithmetic Textbooks," Renaissance Society of America Annual Meeting, March 31, 2016.
- "Six Degrees of Francis Bacon: Crowdsourcing and Social Network Analysis," American Historical Association Annual Meeting, January 9, 2016.
- "Roundtable: Computational Methods in Network Analysis," History of Science Society Annual Meeting, November 20, 2015 [chair].
- "The Materiality of Numbers in Early Modern England," invited talk at Pittsburgh Consortium for Medieval and Renaissance Studies, November 12, 2015.
- "Life-Cycles of Digital Humanities Projects: A Plenary Roundtable," Sixteenth Century Society Conference, October 22, 2015 [organizer, chair].
- "Six Degrees of Francis Bacon: A Practicum," (Re)Building Networks: A Medieval and Early Modern Studies Conference, October 10, 2015 [organizer].
- "'You Must Seeke Records Arithmetique': Reading and Writing in Early Modern Arithmetic Textbooks," Society for the History of Authorship, Reading, and Publishing Annual Meeting, July 8, 2015.
- "Six Degrees of Francis Bacon," invited talk at University of Pennsylvania, May 14, 2015.
- "Six Degrees of Francis Bacon: Citizen Humanists and Undergraduate Research," Mid-Atlantic Conference of British Studies, March 28, 2015 [organizer].
- "'Of Numbers' Use, The Endless Might': Research at the Intersection of History and Mathematics," Roundtable at the American Historical Association Annual Meeting, January 2, 2015 [organizer, chair].

Select Other Publications

- "Twitter at the Big Three: Global Network Stats," *Jessica Otis* blog, May 11, 2017, <https://jessicaotis.com/2017/05/11/twitter-at-the-big-three-global-network-stats/>
- "Digital Library Pedagogy Resources," with Elizabeth Joan Kelly, *Digital Library Federation* blog, March 28, 2017, <https://www.diglib.org/archives/13800/>
- "Gender Inclusivity in *Six Degrees*," with Scott Weingart, *Six Degrees of Francis Bacon* blog, January 5 2016, <http://6dfb.tumblr.com/post/136678327006/gender-inclusivity-in-six-degrees>
- "Identifying and Referencing Network Data," *Six Degrees of Francis Bacon* blog, November 26, 2014, <http://6dfb.tumblr.com/post/103667370521/identifying-and-referencing-network-data>
- "What's in a Name? The Many Nodes of King James VI and I," *Six Degrees of Francis Bacon*

blog, September 16, 2014, <http://6dfb.tumblr.com/post/97645842306/whats-in-a-name-the-many-nodes-of-king-james-vi>

Teaching Awards

Virginia Polytechnic Institute and State University
Favorite Faculty Award, 2013-14

Other Work Experience

University of Virginia: Department of History

Instructor, 2010

HIEU 4501 Popular Science in Early Modern England [senior seminar]

Teaching Assistant, 2006-08

HIEU 211 English History To 1688

HIEU 314 Anglo-Saxon England

HIEU 321 Late Medieval and Renaissance Italy

HIEA 203 Modern China

Grader, 2008

HIAF 389 Africa in World History

Research Assistant, 2006

Kaplan Test Prep and Admissions

GRE Instructor, 2005-08

SAT Instructor, 2006-08

University of Virginia: Bayly Art Museum

Summer Arts Program Assistant, 2006

University of Virginia: Department of Mathematics

Instructor, 2004-05

MATH 121 Applied Calculus

Teaching Assistant, 2003-04

MATH 131, 132 Calculus

National Security Agency

Cryptoanalysis and Exploitation Services (CES) Summer Program, 2002

Professional Affiliations

American Historical Association

North American Conference of British Studies

History of Science Society

Renaissance Society of America

Society for the History of Authorship, Reading, and Publishing

Council on Library and Information Resources

Digital Library Federation