Matthew Wilkens

Cornell University
Department of Information Science
110C Gates Hall, 107 Hoy Road
Ithaca, New York 14853

PROFESSIONAL EMPLOYMENT

Cornell University, Department of Information Science, Ithaca NY
Associate Professor, 2020–
   Member, Data Science graduate field, 2022–

Wayne State University, Department of English, Detroit, MI
Associate Professor, 2019–2020

University of Notre Dame, Department of English, Notre Dame, IN
Ruth and Paul Idzik Associate Professor in Digital Scholarship, 2018–19
Associate Professor, 2017–19
   Concurrent Associate Professor of American Studies, 2017–19
Assistant Professor, 2011–17
   Concurrent Assistant Professor of American Studies, 2012–17

VISITING PROFESSORSHIPS

Aarhus University, Denmark, Department of Literary History
Visiting Professor, Fall 2019

University of North Carolina, Greensboro, Department of English
Visiting Assistant Professor, 2007–2008

Macalester College, Department of English, St. Paul, MN
Visiting Assistant Professor, 2006–2007

POSTDOCTORAL FELLOWSHIPS

Washington University, American Culture Studies Program, St. Louis, MO
Postdoctoral Fellow in Cultural and Textual Analytics, 2010–2011

Rice University, Humanities Research Center, Houston, TX
Andrew Mellon Foundation Postdoctoral Fellow, 2008–2010

EDUCATION

Duke University, Program in Literature, Durham, NC
PhD Literature, December 2006
Dissertation: "Points and Lines: Allegory, Event, and the End of American Modernism"
Committee: Fredric Jameson (chair), Barbara Herrnstein Smith, Michael Hardt, Matt Cohen

University of Wisconsin, Madison, Department of English

MA English, 2000
Degree conferred by comprehensive examination

University of California, Berkeley, College of Chemistry

MS Physical Chemistry, 1998
Thesis: "Time Resolved Studies of Bond Activation by Organometallic Complexes"
Director: Charles Harris

College of William and Mary, Department of Chemistry, Williamsburg, VA

BS Chemistry, summa cum laude, 1996. Second major in Philosophy.
Thesis, highest honors: "Magnetic Studies of $Co_{1-x}Mn_yFe_{x-y}Cl_2 \bullet 2H_2O$ and $Co_{1-x}Ni_xCl_2 \bullet 2H_2O$"

GRANTS

Microsoft Research, ""Prompting Language Models Toward Abstract Legal Reasoning." ($20,000, PI, 2023-2024).

Microsoft and Cornell Center for Data Science Azure Credit Grant, "Evaluation of GPT for Patient Question Answering" ($18,600, PI, 2023-2024)

National Endowment for the Humanities, "AI for Humanists" ($350,000, PI, 2023-2026)

Cornell Center for Social Science NIH Development Cohort Grant ($16,000, 2022-23)

Microsoft and Cornell Center for Data Science Azure Credit Grant, "Transfer Learning for Textual Geography" ($8,300, PI, 2021)

National Endowment for the Humanities, "BERT for Humanists" ($50,000, project member, 2020-2021)

Social Sciences and Humanities Research Council (Canada) Partnership Grant, "Text Mining the Novel: Establishing the Foundations of a New Discipline" ($1.8 million of $4.19 million total project funding, co-investigator, 2014–2020)

National Endowment for the Humanities Digital Humanities Implementation Grant, "Textual Geographies" ($325,000, principal investigator, 2016–2020)

Andrew Mellon Foundation, "Early Print Lab" ($211,515, project member, 2016–2019)

Notre Dame Office of Research, Faculty Research Support Program Regular Grant, "Text Mining for Large-Scale Literary Geography" ($100,000, 2014–2017)

John Templeton Foundation, Metaknowledge Network, "Culture and the Production of Knowledge," ($85,000, co-PI, 2014–2016)

HathiTrust Research Center, Advanced Collaborative Support Grant, "The Trace of Theory" ($50,000, co-PI, 2015).

Andrew Mellon Foundation, Humanities without Walls Consortium Planning Grant, "Uses of Scale in Literary Studies," co-PI with Ted Underwood (Illinois) ($40,000, 2012–2013)

National Center for Supercomputing Applications XSEDE Startup Grant, co-PI with Ted Underwood (Illinois) (2012–2013)

Notre Dame Institute for Scholarship in the Liberal Arts, Henkels Large Conference Grant ($15,000, 2016)

Notre Dame Institute for Scholarship in the Liberal Arts, Faculty Large Research Grant, "Computational Analysis for Literary and Cultural Studies" ($11,500, 2013–2014)

Notre Dame Provost's Initiative, Building Intellectual Communities, "Computational Methods in the Humanities and Sciences," co-convener with Eric Lease Morgan and

Pamela Tamez ($2,748, 2012–2013)
Notre Dame Institute for Scholarship in the Liberal Arts, Faculty Research Grant ($2,500, 2016)
Notre Dame Institute for Scholarship in the Liberal Arts, International Travel Grant ($2,500, 2015)
Notre Dame Institute for Scholarship in the Liberal Arts, Faculty Research Grant ($2,500, 2012)

FELLOWSHIPS AND AWARDS

University of Notre Dame Geographic Information Systems Research Award (2017)
ACLS Digital Innovation Fellow ($80,000, 2014-2015)
Postdoctoral Fellowship in Cultural and Textual Analytics (2010–2012, held 2010–2011)
Andrew Mellon Foundation Postdoctoral Fellowship (2008–2010)
Nebraska Center for Digital Research in the Humanities Early Career Award (2009)
ADHO Early Career Bursary (2009)
Bass Advanced Instructorship (2005–2006)
Price Endowed Research and Dissertation Fellowships (2004–2005)
Vienna International Summer University Fellowship (2003)
Foreign Exchange Fellowship, Universität Potsdam, Germany (2002)
James B. Duke Fellowship (2000–2004)

WORK IN PROGRESS

Books

Evans, Elizabeth and **Matthew Wilkens**. "Gender and Literary Geography." Under contract with Cambridge University Press; manuscript delivered Mar. 2024. A quantitative and qualitative study of gendered patterns (among both writers and characters) in geographic attention in British novels of the nineteenth and twentieth centuries.

Journal Articles and Chapters

Thalken, Rosamond, David Mimno, and **Matthew Wilkens**. "Judicial Self-Fashioning: Rhetorical Performance in Supreme Court Opinions. Under review at *Discourse Studies*, Jan. 2024 (10,000 words). A study of rhetorical variations in published opinions of the US Supreme Court and of the links between those variations and political polarization.

Hicke, Rebecca, Rosamond Thalken, **Matthew Wilkens**, and David Mimno. "Go Fish: Finding Predetermined Axes of Variation in Text Corpora." In preparation for archival conference submission. Develop novel methods to detect scalable axes of interest in large textual corpora.

Bologna, Federica, Rosamond Thalken, David Mimno, and **Matthew Wilkens**. "Endometriosis Online Communities: A Quantitative Analysis." Under review at *Journal of Medical Internet Research*, Feb. 2024. (10,000 words). We use both unsupervised and transformer-based supervised learning to detect and characterize social interactions in an online community for endometriosis support.

Bologna, Federica, Kristen Pepin, Rosamond Thalken, and **Matthew Wilkens**. "Endometriosis Online Communities: How Machine Learning Can Help Physicians Understand What Patients Are Discussing Online." Under review at *Journal of Minimally Invasive Gynecology*, Feb. 2024. (4,000 words). AI-assisted quantitative analysis of user

experiences and expressed needs in large online health communities.

Bologna, Federica, Noémie Elhadad, and **Matthew Wilkens**. 'Evaluation of GPT-4 for Patient Question Answering About Endometriosis.' In preparation for *Journal of the American Medical Informatics Association*. Mar. 2024. (4,000 words). An evaluation of generative AI performance in targeted medical question answering domains.

Wilkens, Matthew, Elizabeth F. Evans, Sandeep Soni, David Bamman, and Andrew Piper. "Small Worlds: Measuring the mobility of characters in English-language fiction." Under review at *Journal of Computational Literary Studies*, Jan. 2024. (6,300 words). We use a novel entity and geolocation extraction system to study the mobility of literary characters in over 13,000 books.

Grant applications

National Institutes of Health, National Institute of Child Health and Human Development. R03 small grant program. "Artificial intelligence for online support communities to improve endometriosis care." ($156,878, PI, submitted Oct. 2023)

National Endowment for the Humanities, Humanities Research Centers on Artificial Intelligence grant program. "Generation and Creation: Artificial Intelligence in the Humanities." ($500,000, co-I with Laurent Dubreuil, Paul Fleming, and Imane Terhmina, submitted Feb. 2024)

Cornell Global Grand Challenges. "AI and Global Societies." ($300,000, co-PI with Aditya Vashistha et al., LOI submitted Feb. 2024)

Cornell Center for Enterprise and Society Thought Summits. "Large Language Models and Society." ($40,000, co-PI with Aditya Vashistha et al., submitted Dec. 2023)

PUBLICATIONS

Books

Revolution: The Event in Postwar Fiction. Baltimore: Johns Hopkins UP, 2016.

A study of the theory, mechanics, and history of revolutionary or "evental" changes and their relation to cultural production, especially in the American postwar. Extended readings of major mid-century authors. Theoretical engagements with issues including periodization, the event, allegory, and encyclopedism.

> Reviewed by Will Norman, *American Literary History* Online Review, series 13 (2017).
> Reviewed by Philip Tew, *Modern Language Review*, 113 (2018).
> Reviewed by Len Gutkin, *Amerikastudien/American Studies*, 63 (2018).

Digital Projects

"AI for Humanists" (aiforhumanists.org). Tutorials, code, workshops, and other materials to help humanists and social scientists employ advanced natural language processing methods in their research. Funded by the National Endowment for the Humanities.

"Textual Geographies" (txtgeo.net). A digital project that collates, maps, and explores the distribution of geographic usage in more than 10 million volumes held by the HathiTrust digital library. Funded by the NEH, ACLS, SSHRC, and the University of Notre Dame.

Edited Volumes

Digital methods companion to *Literature: An Introduction to Theory and Analysis*, ed.
Thomsen et al. (Bloomsbury, 2017). Co-edited with Mads Rosendahl Thomsen.
An online resource to accompany the existing textbook edited by Thomsen et al. The
companion offers brief summaries of the principal opportunities and challenges
entailed in using quantitative methods in literary studies, as well as relevant
bibliographies and suggestions for further research.

"Digital Humanities and Irish Studies." Volume 3 of *Breac: A Digital Journal of Irish Studies*
(2015). Coedited with Sonia Howell.

"The Philosophy of Alain Badiou." Volume 17 of *Polygraph: An International Journal of
Culture and Politics* (2005).

Peer-Reviewed Journal Articles

Antoniak, Maria, David Mimno, Rosamond Thalken, Melanie Walsh, **Matthew Wilkens**, and
Gregory Yauney. "The Afterlives of Shakespeare and Company in Online Social
Readership." *Modernism/Modernity* and *Journal of Cultural Analytics*, forthcoming
2024. (7,400 words)

Thalken, Rosamond, David Mimno, and **Matthew Wilkens**. "It Matters to the Viewer: Social
Reviews of Books Adapted for Film," in *DH Unbound 2022, Selected Papers*, ed. Barbara
Bordalejo, Roopika Risam, and Emmanuel Château-Dutier, special issue. *Digital
Studies/Le champ numérique* 13.3 (2024): 1–22.

Bjerring-Hansen, Jens and **Matthew Wilkens**. "Deep Distant Reading: The Rise of Realism
in Scandinavian Literature." *Orbis Litterarum* 78.5 (2023): 335-52.

"'Too isolated, too insular': American Literature and the World." *Journal of Cultural
Analytics*. (2021). (10,000 words, 20% acceptance rate)

"The Cultural Economies of Digital Books." *American Literary History*. 31.4 (2019): 870-
879. (4,000 words, 5% acceptance rate)

Evans, Elizabeth F. and **Matthew Wilkens**. "Nation, Ethnicity, and the Geography of British
Fiction, 1880-1940." *Cultural Analytics* (2018). (14,500 words, 20% acceptance rate)

"Genre, Computation, and the Varieties of Twentieth-Century U.S. Fiction." *Cultural
Analytics* (2016). (9,500 words, 20% acceptance rate)

Santin, Bryan, Daniel Murphy, and **Matthew Wilkens**. "Is or Are: The 'United States' in
Nineteenth-Century Print Culture" (cover article). *American Quarterly* 68.1 (2016):
101–124. (8% acceptance rate)

"Digital Humanities and Its Application in the Study of Literature and Culture." Special
issue, "Empirical and Systemic Approaches to the Study of Literature and Culture," ed.
Steven Tötösy de Zepetnek. *Comparative Literature* 67.1 (2015): 11–20. (20%
acceptance rate).

"The Geographic Imagination of Nineteenth-Century American Fiction." *American Literary
History*. 25.4 (2013): 803–40. (5% acceptance rate)
Reviewed in Nelson, Robert K. "Digital Humanities as Appendix." *American
Quarterly* 68.1 (2016): 131–136.

"Scale and Method: A Reply to Jeremy Rosen." *Post45* 2 (2012). (2,200 words; 35%
acceptance rate)

"Contemporary Fiction by the Numbers." *Post45* 1 (2011). (4,100 words; 35% acceptance
rate)

"Nothing as He Thought It Would Be: William Gaddis and American Postwar Fiction."
    Contemporary Literature 51 (2010): 596–628. (10% acceptance rate)
"Narrating the Sublime Event." *Theory@buffalo* 11 (2007): 143–66.
"Toward a Benjaminian Theory of Dialectical Allegory." *New Literary History* 37 (2006):
    285–98. (25% acceptance rate)
"Events as Dual and Narrative Entities in Deleuze and Badiou." *Subject Matters* 2 (2005):
    25–34.
G.C. DeFotis, **M.J. Wilkens**, A.C. Beveridge, A.A. Narducci, M.H. Welch, H.A. King, J.S.
    Bergman, M.E. Cox, and R.B. Jeffers. "Composition Induced Lowering of Metamagnetic
    Critical Field and Static Magnetic Properties of $Co_{1-x}Ni_xCl_2 \cdot 2H_2O$." *Physical Review B* 62
    (2000): 6421–28.
G.C. DeFotis, A.C. Beveridge, **M.J. Wilkens**, Z.J. Fuller, J.G. McMahon, and C.D. Wallo.
    "Insulating Ternary Magnetic $Co_{1-x}Mn_yFe_{x-y}Cl_2 \cdot 2H_2O$." *Journal of Applied Physics* 87
    (2000): 6540–42.
H. Yang, K.T. Kotz, M.C. Asplund, **M.J. Wilkens**, and C.B. Harris. "Ultrafast Infrared Studies of
    Bond Activation in Organometallic Complexes." *Accounts of Chemical Research* 32
    (1999): 551–60.
M.C. Asplund, H. Yang, K.T. Kotz, S.E. Bromberg, **M.J. Wilkens**, and C.B. Harris.
    "Femtosecond Infrared Studies of Chemical Bond Activation." *Laser Chemistry* 19
    (1999): 253–62.
H. Yang, M.C. Asplund, K.T. Kotz, **M.J. Wilkens**, C.B. Harris, and H. Frei. "Reaction
    Mechanism of Silicon-Hydrogen Bond Activation Studied Using Femtosecond to
    Nanosecond IR Spectroscopy and *Ab Initio* Methods." *Journal of the American Chemical
    Society* 120 (1998): 10154–65.
S.E. Bromberg, H. Yang, M.C. Asplund, T. Lian, B.K. McNamara, K.T. Kotz, J.S. Yeston, **M.J.
    Wilkens**, H. Frei, R.G. Bergman, and C.B. Harris. "The Mechanism of a C–H Bond
    Activation Reaction in Room-Temperature Alkane Solution." *Science* 278 (1997): 260–
    63. (Cover article.)

Other Articles and Chapters

"The New Literary Geography." *Compendium of Computational Theology*, ed. Christopher
    Nunn and Frederike von Oorschot, University of Heidelberg Press, 2024.
"Is American Fiction Too Provincial?" *Public Books*. 13 October 2020. (2,000 words)
"Review of *Computing as Writing* by Daniel Punday." *American Literary History* Online
    Review, series 12, 2017. (1,500 words).
"The Perpetual Fifties of American Fiction." In *Neoliberalism and Contemporary Literary
    Culture*, ed. Mitchum Huehls and Rachel Greenwald Smith. Johns Hopkins UP: 2017.
    (6,000 words)
"An Impossible Number of Books." Review of *Macroanalysis: Digital Methods and Literary
    History* by Matthew Jockers. *Los Angeles Review of Books*. 16 August 2013. (3,200
    words)
"Canons, Close Reading, and the Evolution of Method." *Debates in the Digital Humanities*,
    Matthew K. Gold, ed. University of Minnesota Press, 2012. 249–58.
"The Origins of Literary Text Mining." In *Language, Signs, Meaning, Applications: The Philip
    Mills Arnold Semeiology Collection*, Erin Davis, ed. St. Louis, MO: Washington University
    Libraries, 2011. 11–12.
"Introduction: The Philosophy of Alain Badiou." *Polygraph* 17 (2005): 1–9.

PRESENTATIONS AND CONFERENCES

Conferences Organized

Cultural Analytics 2: Computational Approaches to the Study of Culture. University of Notre Dame, Notre Dame, IN, 26–27 May 2017.

Singularity and Multiplicity: Recent Developments in Philosophy and Political Theory. Duke University, Durham, NC, 26 March 2005.

Master Classes and Workshops Delivered

"Artificial intelligence: An overview for NEH." With Melanie Walsh and David Mimno. Invited presentation and workshop on AI for the full staff of the National Endowment for the Humanities. 6 and 8 December 2023.

"Translation Tutorial: A Hands-On Introduction to Large Language Models for Fairness, Accountability, and Transparency Researchers." With Maria Antoniak, Melanie Walsh, Luca Soldaini, and David Mimno. Tutorial at *ACM Conference on Fairness, Accountability and Transparency Extra (FAccT23Extra)*. Chicago, IL. 12 June 2023.

"BERT for Humanists." With David Mimno, Maria Antoniak, and Melanie Walsh. Two, half-day workshops introducing advanced techniques in natural language processing to users in the humanities and interpretive social sciences. 2022.
   Delivered in modified form as "BERT for Social Sciences and Humanities: Applying Large Language Models to Social Media Data." *Sixteenth International Conference on Web and Social Media (ICWSM-2022)*. Atlanta, GA. 6 June 2022.

"Named Entity Recognition for Geographic Analysis in the Humanities and Social Sciences." Interacting Minds Center, Aarhus University, Denmark. 7 November 2019.

"Text Mining and Geospatial Analysis." Master class on spatial analysis of textual datasets. Special outreach emphasis for early career women in digital humanities. University of Notre Dame, 22–24 May 2017.

"Quantitative Methods for Humanities Researchers." Multi-day master class on quantitative research in humanities disciplines. University of Edinburgh, Scotland. 19–21 September 2016.

Invited Papers and Presentations

"Gender, Space, and Feeling in British Fiction, 1800-2010." Keynote address, Comparing Landscapes: Approaches to Space and Affect in Literary Fiction. University of Bielefeld, Germany. 20–21 April 2023.

"Mining and modeling online endometriosis support narratives." Cultural Analytics: New Approaches to Narrative and Society. McGill University, Montreal, QC, Canada. 15–17 September 2022.

"Migration and Home: Quantitative Literary Geography between Nations." Keynote address, Digital Humanities in the Arabic World Conference. Dohan Institute for Graduate Studies, Doha, Qatar. 15 March 2022.

"Data Science in the Humanities." International Society for Data Science and Analytics. University of Notre Dame. 5 June 2021.

"Computational Approaches to Large-scale Literary Geography." Frei Universität Berlin. 2 December 2020.

"Textual Geographies: An Overview." HathiTrust Research Center User Workshop. University of Illinois. 15 October 2020.

"The New Literary Geography." Synergies: Bridging the Gap Between Traditional and Digital Literary Studies. University of Southern Denmark and the Danish Royal Library. Copenhagen, Denmark. 28 September 2020.

"Data Science in English: Now and Next." Department of English, University of Colorado, Boulder. 20 February 2020.

"Is American Literature Provincial?" The ABCs of Comparative Literature. Department of Literary History, Aarhus University, Denmark. 13 December 2019.

"How to Find Genres in Thousands of Books." Network for Digital Literary Studies. University of Southern Denmark, Odense. 3 December 2019.

"Literary Geography and National Origin in British Fiction." Natural Language Processing Workshop, Aarhus University, Denmark. 6 November 2019.

"Modeling Literary Genre." Interacting Minds Center, Aarhus University, Denmark. 22 October 2019.

"What Comes Next: Causal Inference and Literary History." Text Mining the Novel Symposium. Banff, AB. 17 October 2019.

Invited respondent, Network for Digital Literary Studies Lecture Series. Royal Library of Denmark, Copenhagen. 26 September 2019.

"Networks of Place." Literary Networks and Networks of Literature. National Library of Norway, Oslo. 8 May 2019.

"The Problem of Abundance: Computational Methods and Literary Studies." Emory University. 28 February 2019.

"Books as Data: On Computation and Cultural Analysis." Cornell University. 21 February 2019.

"Literature in the Time of Data." Wayne State University. 4 February 2019.

"'Too isolated, too insular': American Literature and the World." Text Mining the Novel Symposium. Montreal, QC. 19 October 2018.

"Computation and the Evolution of Cultural Studies." King's College, University of London. 8 May 2018.

"The New Literary Geography: Computation and the Evolution of Literary Studies." University of Missouri. 12 April 2018.

"Textual Geographies: Place, Computation, and Literature at Scale." Michigan State University. 16 February 2018.

"Machine Learning and Literary Classification." Digital Approaches to Scandinavian Literature. University of California, Los Angeles. 14 November 2017.

"Race and Access in the Digital Library." Text Mining the Novel Symposium. Montreal, QC. 27 October 2017.

Invited respondent, Post45 Symposium. Wesleyan University, Middletown, CT. 20–21 October 2017.

"Textual Geographies: Race and Place in 11,000 British Novels, 1880–1940." Co-presentation with Elizabeth Evans. DePaul University, Chicago. 12 October 2017.

"The Future of the Digital Humanities." Keynote address, Distant Reading Summer School, Universität Heidelberg, Germany. 27 September 2017.

"Race and the Geography of London Fiction, 1880–1940." Mapping Minds, Worlds, Territories Symposium. Bibliotheca Hertziana Max Planck Institut für Kunstgeschicte and University of Notre Dame. Rome, Italy. 12 June 2017.

"Urbanization and Geographic Attention in Twentieth-Century Fiction." Cultural Analytics 2. University of Notre Dame. 27 May 2017.

"Ethnic and National Identity in Literary London, 1800-2000." Text Mining the Novel Symposium, Banff, AB. Co-authored with Elizabeth Evans. 20 October 2016.

"Computation and Abundance: Quantitative Methods for Humanities Inquiry." University of Edinburgh. 21 September 2016.

"Computational Approaches for Comparative Modernisms." Scandinavian Modernism and Computational Methods. Aarhus University, Denmark. 13 September 2016.

"Studies in Literary Computation: Geography, Economics, Genre" ProQuest Seminar Series. Ann Arbor, MI. 17 February 2016.

"The Perpetual Fifties of American Fiction." Post45 Symposium. Iowa City. 6 November 2015.

"Genre, Computation, and the Weird Canonicity of Recently Dead White Men." Text Mining the Novel Symposium. Montreal, QC. 22 October 2015.

"Literary Geography Beyond the Book: Text Mining and Spatial Analysis." Aarhus University, Denmark. 17 September 2015.

"Literature and Economic Change in the Twentieth Century." Cultural Analytics: Computational Approaches to the Study of Culture. Neubauer Collegium for Culture and Society. University of Chicago. 22 May 2015.

"Literary Geography of the Twentieth Century: Computational and Statistical Models." Hall Center for the Humanities, University of Kansas. 22 April 2015.

"Computational Literary Geography." Department of English and Group for Experimental Methods in the Humanities. Columbia University. 15 April 2015.

"Reading Data: Quantitative Analysis and Literary Studies." Department of English, University of Miami. 23 January 2015.

"A Stronger Humanities: Building DH for (Almost) Everyone." Center for the Humanities, University of Miami. 22 January 2015.

"What's All the Fuss about Digital Humanities?" Notre Dame College of Arts and Letters Saturday Scholars Series. 15 November 2014.

"The Encyclopedia and Late Modernism." New England Americanist Collective Workshop, Brown University. 6 June 2014.

"Digital Humanities and New Institutional Structures." Center for Spatial and Textual Analysis, Stanford University. 20 May 2014.

"Computational Methods, Literary Attention, and the Geographic Imagination." Literary Lab, Stanford University. 19 May 2014.

"Quantitative Approaches to Literary Attention." Digital Humanities Forum. University of Chicago. 7 March 2014.

"Digital Humanities, Why and How: Text-Mining Literary History." Digital Humanities Symposium. Franklin and Marshall College. 10 January 2014.

"Literature, Geography, Computation." American Studies Colloquium. University of Notre Dame. 8 November 2013.

Invited respondent, Post45 Symposium. University of Chicago. 15–16 November 2013.

"Literary Geography and Big(ish) Data." Keynote address, HathiTrust Research Center UnCamp. University of Illinois. 8 September 2013.

"Where Was the American Renaissance? Computation, Space, and Literary History in the Civil War Era." Keynote address, Uses of Scale in Literary Studies Conference. University of Illinois. 8 March 2013.

"Literary Geography and Periodization at Corpus Scale." University of Nebraska, 3 December 2012.

Invited respondent, Post45 Symposium. Stanford University. 9–10 November 2012.

Invited respondent, Distant Readings/Descriptive Turns: Topologies of German Culture in the Long Nineteenth Century. Washington University in St. Louis. 29–31 March 2012.

"Literary Studies and the Problem of Abundance." Clemson University. 30 January 2012.

"Cultural Studies at Cultural Scale." Northeastern University. 12 January 2012.

"Data-Driven Literary History: Text Mining and the Locations of American Fiction." American Culture Speaker Series. Washington University in St. Louis. 7 March 2011.

"Literary Studies in the Age of Data." Washington University Libraries Special Collections. 23 February 2011.

"From Ellison to Galchen: Rethinking Periodization in American Fiction." University of Notre Dame. 21 February 2011.

"Undermining Canons." The Digital and the Human(ities): Access, Authority, and Identity. Texas Institute for Literary and Textual Studies. University of Texas, Austin. 5 February 2011.

"Text, Data, and the Problem of Abundance in Contemporary Literature." University of Victoria. 11 January 2011.

"Literature, Data, Abundance." University of Michigan School of Information. 8 December 2010.

"Events of Contemporary Fiction." Boise State University. 29 November 2010.

"What to Do with Too Much Text, or, Data Mining for the Humanities and Social Sciences." Washington University in St. Louis. 8 October 2010.

"Media by the Numbers, or, Profiting from the Problem of Abundance." Virginia Commonwealth University. 15 April 2010.

"Literature in the Age of Data." Rice University. 14 January 2010.

"Revolutions and Large Literary Corpora, or What is a Period?" University of Nebraska Digital Workshop. 2 October 2009.

"On Not Reading Rhetoric." Metaphors and Machines Conference. Northwestern University. 30 September 2009.

"Allegory and Computation." Northwestern University. 27 April 2009.

"Events, Electrons, and Electronic Texts: On the Theory and Practice of Becoming New." Virginia Commonwealth University. 31 March 2008.

"Categories and Revolution in *Logiques des Mondes*." University of California, Los Angeles. 9 February 2007.

Program Committees and Panels Organized

Program committee, "Workshop on Geospatial Humanities." ACM Special Interest Group on Spatial Information International Conference on Advances in Geographic Information Systems 2018 (ACM SIGSPATIAL 2018). Seattle, WA, 6 November 2018.

Program committee, "Workshop on Geospatial Humanities." ACM Special Interest Group on Spatial Information International Conference on Advances in Geographic Information Systems 2017 (ACM SIGSPATIAL 2017). Redondo Beach, CA, 7 November 2017.

"New Developments in Digital Americanist Studies," Digital Americanists Society, American Literature Association Conference. Boston, MA, 21–24 May 2015.

"Visualizing Non-Linearity: Faulkner and the Challenges of Narrative Mapping." American Literature Association Conference. Washington, DC, 22–25 May 2014.

"Digital Flânerie and Americans in Paris." American Literature Association Conference. Washington, DC, 22–25 May 2014.

"Computational Approaches to Nineteenth-Century Literary History." American Literature Association Conference. San Francisco, CA, 24–27 May 2012.

"Textual Studies and the Spatial Turn." Society for Textual Studies. State College, PA, 16–18 March 2011.

Conference Papers and Presentations

Thalken, Rosamond, Edward H. Stiglitz, David Mimno, **Matthew Wilkens**. "Modeling Legal Reasoning: LM Annotation at the Edge of Human Agreement." The 2023 Conference on Empirical Methods in Natural Language Processing (EMNLP'23). Singapore, 7 December 2023.

Thalken, Rosamond, Edward H. Stiglitz, David Mimno, **Matthew Wilkens**. "Modeling Legal Reasoning: Annotation at the Edge of Human Agreement." New Directions in Analyzing Text as Data (TADA'23). Amherst, MA, 9-10 November 2023.

Bologna, Federica, Kristen Pepin, **Matthew Wilkens**. "What's Happening in Endometriosis Online Communities?" American Association of Gynecologic Laparoscopists Global Congress (AAGL'23). Nashville, TN. 7 November 2023.

Soni, Sandeep, Amanpreet Sihra, Elizabeth F. Evans, **Matthew Wilkens**, David Bamman. "Grounding Characters and Places in Narrative Texts." 61st Annual Meeting of the Association for Computational Linguistics (ACL'23). Toronto, Canada. 11 July 2023.

Thalken, Rosamond, David Mimno, and **Matthew Wilkens**. "Large Language Models and NER: Better results with less work." Co-authored with. Poster presentation, Digital Humanities 2023 (DH2023). Graz, Austria, 10–14 July 2023.

Bologna, Federica, Rosamond Thalken, David Mimno, and **Matthew Wilkens**. "Support and Relationship Patterns in Endometriosis Narratives." Digital Humanities 2022 (DH2022). Tokyo, Japan. 29 July 2022.

Thalken, Rosamond, David Mimno, and **Matthew Wilkens**. "True to the Spirit: Fidelity, Adaptation, and Value in Amateur Book Reviews." Digital Humanities Unbound Conference. Montreal, QC, Canada. 18 June 2022.

Antoniak, Maria, Melanie Walsh, David Mimno, and **Matthew Wilkens**. "BERT for Humanists: Uses, Challenges, Translations." Association for Computers and the Humanities Annual Meeting 2021 (ACH21). 22-23 July 2021.

Thalken, Rosamond, David Mimno, and **Matthew Wilkens**. "Constraints, Creativity, and Control: A Computational Analysis of Rhetoric in Supreme Court Opinions." Association for Computers and the Humanities Annual Meeting 2021 (ACH21). 22-23 July 2021.

Yauney, Gregory, **Matthew Wilkens**, and David Mimno. "Received textual similarity via network distance." Association for Computers and the Humanities Annual Meeting 2021 (ACH21). 22-23 July 2021.

"Textual Geographies." University of Notre Dame Digital Humanities Working Group. 3 October 2017.

"Quantifying Geography and Identity in Modern London." Modernist Studies Association Conference. Pasadena, CA, 17–20 November 2016. Co-presentation with Elizabeth Evans.

"Geography and National Identity in the Literature of Modernist London." Spatial Humanities. Lancaster, UK, 15–16 September 2016. Co-presentation with Elizabeth Evans.

"The Trace of Theory: Extracting Subsets from Large Collections." Digital Humanities Conference. Krakow, Poland, 12–16 July 2016.

"On the Track of Literary Theory and Philosophy: Explorations of the HathiTrust Collections." Canadian Society for Digital Humanities Conference. Calgary, AB, 30 May–1 June 2016.

"Globalization and the Neoliberal Novel at Scale." "Neoliberalism and the Literary Sphere." ASAP 7. Clemson, SC, 24–27 September 2015.

"Mapping and Modeling Centuries of Literary Geography across Millions of Books." Digital Humanities Conference, Sydney, Australia, 29 June–3 July 2015.

"Measuring Sites of Literary Memory." "Geographies of Memory in C19 America." Modern Language Association Conference. Vancouver, BC, 8–11 January 2015.

Participant, HathiTrust Research Center Uncamp. Indiana University, 10–11 September 2012.

"Geolocation Extraction and Mapping of Nineteenth-Century U.S. Fiction." Chicago Digital Humanities and Computer Science Colloquium. Chicago, IL, 19–21 November 2011.

"On the Non-Equivalence of Guilt and Debt." ASAP Conference. Pittsburgh, PA, 27–30 October 2011.

"The Warring Subject." Post45 Conference. Cleveland, OH, 29–30 April 2011.

"On Late Postmodernism." Narrative Conference. St. Louis, MO, 7–10 April 2011.

"Data Mining Literary Locations." Society for Textual Studies. State College, PA, 16–18 March 2011.

"Data Analysis and Literary History beyond the Canon." Modern Language Association. Los Angeles, CA, 6–9 January 2011.

"How to Think about Allegory by the Numbers." Narrative Conference. Cleveland, OH, 7–10 April 2010.

"Critical Text Mining; or, Reading Differently." Modern Language Association. Philadelphia, PA, 27–30 December 2009.

"Digital Modernism." Modernist Studies Association Conference. Montreal, QC, Canada, 5–8 November 2009.

Participant, THATCamp. George Mason University, Fairfax, VA, 27–28 June 2009.

"Corpus Analysis and Literary History." Digital Humanities Conference. College Park, MD, 22–25 June 2009.

"Coetzee, Debt, Rights." American Comparative Literature Association Conference. Cambridge, MA, 26–29 March 2009.

"Periodization and the Narrative of Late Modernity." Modernist Studies Association Conference. Nashville, TN, 13–16 November 2008.

"Historical Narrative, Literary and Otherwise: Rancière and Badiou." Narrative Conference. Austin, TX, 1–4 May 2008.

"Materiality and the Name: Badiou and Rancière on the Mechanisms of History." American Comparative Literature Association Conference. Long Beach, CA, 24–27 April 2008.

"Secrets and Lies: Media, Capital, and the Body in *Carpenter's Gothic*." Louisville Conference on Literature and Culture since 1900. Louisville, KY, 21–23 February 2008.

"Event, Revolution, Modernity." Modernist Studies Association Conference. Long Beach, CA, 1–4 November 2007.

"Rhetoric and Contagion in *The Cattle Killing*." American Literature Association Conference. Boston, MA, 24–27 May 2007.

"William Gaddis and the Allegory of Modernism's Fall." Twentieth-Century Literature and Culture Conference. Louisville, KY, 22–24 February 2007.

"On Political Art." Twentieth-Century Literature and Culture Conference. Louisville, KY, 23–

25 February 2006.

"Doris Lessing and the Problems of Encyclopedism." Narrative Conference. Louisville, KY, 7–10 April 2005.

"The Event of Narrative in Deleuze and Badiou." Narrative Conference. Burlington, VT, 22–25 April 2004.

"Collectivity and Event: A Response to Phillip Wegner." Anticipated Utopias: The Ethics and Politics of Collectivity. Durham, NC, 16–17 April 2004.

"Whither the Real: A Note on the Uses of Allegory and Realism in Salman Rushdie's *Midnight's Children*." NEMLA Convention. Hartford, CT, 31 March 2001.

COURSES TAUGHT

Upper-Division and Graduate

Advanced NLP for Humanities Research. Senior capstone course in contemporary NLP methods with application to research in the humanities and social sciences.

Text Mining the Novel and **Text Mining for History and Literature**. Technically intensive mixed undergraduate and graduate course on text mining and machine learning with application to the humanities and social sciences. At Notre Dame, cross listed with Data Science and Computing and Digital Technologies.

Digital Humanities. Technically intensive graduate survey of issues and methods in the professional practice of digital humanities.

Computational Literary History. Programming-based graduate seminar covering recent advances in computationally assisted literary analysis.

Media Studies and Digital Humanities. Recent developments in the study of digital texts and objects. Topics include media theory, textuality, and computational research methods.

Computational Literary Studies. Computationally intensive, project-centered, advanced undergraduate course on data-driven literary analysis.

Contemporary U.S. Novel. The American novel since 1996, with relevant theoretical and critical readings.

U.S. Fiction in the Twenty-First Century. Graduate literature seminar on fiction produced in the United States since 2000 with special emphasis on the recent evolution of the novel.

American Late Modernism. Examination of U.S. fiction between 1945 and 1975, including the decline of modernist forms and the rise of postmodernism.

Contemporary Cultural Production of the U.S. Examination of the cultural and knowledge industries as they now exist in the United States. Draws on literature, economics, software and gaming, anthropology, law, and cultural studies.

Allegory. Allegory as a genre, trope, and theoretical problem from ancient to contemporary periods. Readings in drama, poetry, novel, and sacred texts.

Literature and Science. Philosophy and cultural studies of science, with extensive readings in related prose fiction of the nineteenth and twentieth centuries.

Lower-Division and Composition

Introduction to Data Science. A large-format introductory course on the concepts and methods of data science.

Books as Data. An intensive first-year seminar on the relationship between literary

studies and quantitative methods.

Introduction to American Literature. Survey of American prose, poetry, and drama from the colonial period to the present. Lecture format with teaching assistants.

Introduction to Literary Studies. Approaches and methods of literary study. Close reading of primary, secondary, and theoretical texts. Mixed genres.

Contemporary Novel. Postwar fiction of the U.S., Britain, and Anglophone nations. Lecture format.

Literature in Theoretical Perspectives. Survey of literary and cultural theory.

Quest in American Fiction. Quest as a theme and motif in American fiction from *Moby-Dick* to the present. Writing intensive.

On the Congo. Introduction to literary studies via treatments of the Congo by Congolese, American, and British writers. Writing intensive.

Theories of Knowledge. Writing-intensive study of ways of knowing in the humanities and sciences.

POSTDOCTORAL SUPERVISION AND MENTORSHIP

Daniel Sinykin, Fellow in Textual Geographies (2017–19)

Lindsey Wieck, Arts and Letters Fellow (2016–17)

Melissa Dinsman, Council on Library and Information Resources Fellow (2015–16)

GRADUATE DISSERTATIONS AND PROJECTS DIRECTED

Kiara Liu, Information Science, Cornell University. Matriculated 2023.

Federica Bologna, Information Science, Cornell University. Matriculated 2021.

Rosamond Thalken, Information Science, Cornell University. Matriculated 2020.

Federica Bologna, "A Computational Approach to Urban Space in Science Fiction" Università di Bologna. (MA, 2020)

Douglas Duhaime, "Algorithmic Approaches to the Study of Influence in Eighteenth-Century Literature" (PhD, 2019). Currently employed at Yale University Libraries. Recipient, 2017 Graduate School Research Computing and Visualization Award.

Bryan Santin, "Imagining the American Right: Postwar Fiction and the Rise of Modern Conservatism, 1945 - 2005" (co-directed with Sandra Gustafson, PhD, 2017). Assistant Professor of English, Concordia University Irvine.

Jane Wageman, "The Transatlantic Long Twentieth Century" (co-directed with Barry McCrea, MA, 2017)

Angela Lake, "Children's Literature and Modern Thought: Bridging the Barrier of World War I" (MA, 2016)

Bryan Santin and Dan Murphy. "The United States 'Is' or 'Are'?" Summer ND ISLA Graduate Student Research Award (2013, $5,000).

GRADUATE DISSERTATIONS READ

Anna Choi, Cornell University, Information Science. Matriculated 2021.

Shiang-Wan Chin, Cornell University, Systems Engineering. Matriculated 2019.

Stacy Sivinski, "Subversive Sensations: Reconsidering the Sensory in New Woman Literature" (PhD, 2021)

Timothy Wilcox (University of Stony Brook), "Early Electronic Literature in the Romantic Tradition" (PhD, 2019)

Dan Murphy, "The Technics of Realism" (PhD, 2017)

Brad Reina (University of Stony Brook), "Digitizing the Novel: The American Novel and Digital Technology, 1987–2015." (PhD, 2016).

Robinson Murphy, "Castration Desire: An Exploration of Global Male Self-Dissolution" (PhD, 2016)

Angel Matos, "Queer Developments: LGBTQ Literature, Young Adult Fiction, Narrative, and Genre" (PhD, 2016)

Kara Donnelly, "The Booker Prize: Literature, Britain, and the World, 1968–1999" (PhD, 2015). Recipient, 2016 Eli J. and Helen Shaheen Graduate School Award in the Humanities.

John Dillon, "The Servants of Modernism: Aesthetics and Tradition in Yeats, Lorca, and Woolf" (PhD, 2015)

UNDERGRADUATE THESES AND PROJECTS DIRECTED

Kyu Hwan Choi, "Reddit bots and self-improvement" (2024)

Ming Demers, "Rochester Repair" (2024)

Zayana Khan, Milstein Program in Technology and Humanity (2024)

Julius Enarsson Enestrom, "Assertive China: Myth and Fact" (2023-24)

Richard Kang, "Learning reviewer practices on Goodreads" (2023)

Sydney Bednar, "Computational analysis of online eating-disorder communities" (2023)

Wally Chang, "Morning Email Newsletter Text Mining Analysis" (2023)

Naba Deyab, "Socially disparate impacts of health policy in the United States." Milstein Program in Technology and Humanity (2023)

Amber Li, "Evolution of online abortion debates after *Dobbs*" (2022)

Kaela Olsen, "Racial and gender disparities in student evaluations of teaching" (2022)

Rachel Spivak, "Gender impacts on STEM job recruitment" (2022).

Evan Park and Camillo Guarducci, "Environment-aware algorithmic art" (2022).

Timothy Reeves and Rohan Upadhyayula, "Toxicity and Design in Online Communities" (2021).

Aishwarya Singh, "Computational Analysis of Coming Out Stories" (2021).

Nicholas Jeffries, "Egocentrism in Social Media: A Quantitative Analysis" (2019).

Megan Kollitz, "Postmodernism and Cybernetics" (2019).

Louis Filipiak, "Service and Sincerity in David Foster Wallace and C.S. Lewis" (2019).

Patrick Evans, "Read Between the Lines: Examining Dialogue in Contemporary American Literature through Machine-Learning Processes." Summer 2018 ND UROP Da Vinci grant ($4,500).

Joseph Cabrera, "Knowledge and Accumulation in Contemporary Fiction" (2017).

Charlie Ducey, "A Fragmented Modernity in David Foster Wallace's *The Pale King*" (2016).

Gerard Ledley, "David Foster Wallace and the New Literary Period" (2016).

Will Peterson, "David Foster Wallace's Vocation" (2014).

Vienna Wagner, "Computational Analysis for Literary and Cultural Studies." Summer 2013 ND UROP Da Vinci grant ($4,500).

Austin Hagwood, "Gravity Unchained: Thomas Pynchon, Quentin Tarantino, and a postmodern conception of American identity." Summer 2013 ND ISLA American Dream grant ($2,275).

Tommasina Domel, "Gender and the Grotesque in *Winesburg, Ohio*" (2013).

Molly Herber, "How to Imagine the Land and Self: Ecology in *Swamplandia!*" Ad-hoc research publication supervision (2013).

Matthew Hawk, "So Close and Yet So Far: Flexibility of Style and Narrative Shortcoming in *Breakfast at Tiffany's* and *In Cold Blood*" (2012).

Matthew Ong, "The Thematic Arc of the Ideology of the American Dream in Gish Jen's Four Novels" (2012).

OTHER ACADEMIC EXPERIENCE AND SERVICE

External

Leadership

President, Digital Americanists Society, 2013–2017 (vice president, 2011–2013)

Co-convener, International Comparative Literature Association research committee on digital comparative literary studies (2024–27)

Editorial and advisory boards

Editorial board member, *American Literary History*, 2023–

Founding editorial board member, *Journal of Cultural Analytics*, 2015–

Editorial board member, *Criticism*, 2020

Scientific advisory board member, Norwegian National Romanticisms (NORN) project. University of Oslo, Norway. 2021–

Advisory board member, *Artists v. AI: The Story of Human Artists in the Age of Computer-Generated Art*, 2023–

Advisory board member, *Journal of Digital Arabic and Islamic Research*, 2021–

Advisory board member, What Is the Midwest?, Newberry Library, 2017–19

Advisory board member, NLP for Underserved Languages and Domains Project, 2015–17

Editorial board member, *Polygraph: An International Journal of Culture and Politics*, 2000–2006

Reviewing and other service

Reviewer, National Endowment for the Humanities Collaborative Research Program, 2024 (awards to $300,000)

Reviewer, Canadian SSHRC Insight Grant program, 2024 [2018, 2016, 2014] (awards to $500,000)

Reviewer, European Research Council Advanced Grant Program, 2023 [2019] (awards to €2.5 million)

Reviewer, US NEH-UK AHRC New Directions for Digital Scholarship in Cultural Institutions joint grant program, 2021 (awards to $500,000)

Reviewer, National Endowment for the Humanities, Preservation and Access Research and Development Grant Program, 2020 (awards to $350,000)

Reviewer, German Research Foundation, Joint DFG-AHRD Collaboration Grant Program, 2019 (awards to €1 million)

Reviewer, European Research Council Consolidator Grant Program, 2017 (awards to €2 million)

Reviewer, National Endowment for the Humanities, Digital Humanities Advancement Grant Program, 2017 (awards to $75,000)

Reviewer, American Academy of Berlin Fellowship Program, 2015 [2012]
Reviewer, National Endowment for the Humanities, Digital Humanities Implementation Grant Program, 2013 (awards to $325,000)
Reviewer, National Endowment for the Humanities, Digital Humanities Startup Grant Program, 2010 (awards to $60,000)
Reviewer, Digital Humanities Conference, 2009–
Reviewer, ACH Conference, 2020–
Reviewer, DH Unbound Conference, 2021
Expert panelist, "Redefining the Region," Radboud University, Netherlands (2020)
Contributor, digital methods tutorial, methodi.ca Digital Text Methods (2016)

Internal

Cornell

Advisory board, Center for Data Science for Enterprise and Society, 2022–
Fellow, Cornell Population Center, 2022–
Affiliate, Cornell Center for Social Sciences, 2021–
Undergraduate Studies Committee, 2020–
Undergraduate Curriculum Reform Committee, 2023–24 (lead, 2024)
Faculty advisor, Cornell Data Journal, 2021–
Faculty advisor, Cornell Digital Humanities Club, 2021–
Active Learning Initiative, 2020–

Notre Dame

Steering Committee, Data Science Program, 2018–2019
College Council, College of Arts and Letters, 2018–2019
University Committee on Academic Technologies, 2016–2019
Advisory board, Catholic Social Teaching and International Human Rights Project, 2016–2019
Graduate Studies Committee, Department of English, 2015–2019
Steering Committee, Computing and Digital Technologies Program, 2014–2019
Leader and area head, American Area Seminar, Department of English, 2012–13, 2016–2019
Provost's Committee on Data Science, 2016
Dean's Study Group on Digital Humanities, 2012

Other universities

Faculty Workshop on Cultural Studies of Science and Technology, Rice University, 2008–2010
Organizer, Working Group in Contemporary Theory, UNC Greensboro, 2007–2008
Committee on Curricular Renewal in Writing, Macalester College, 2007
Organizer, The Political Event Working Group, Duke University, 2004–2005
Americanist Working Group, Duke University, 2000–2005

PROFESSIONAL BLOG

"Work Product" (http://mattwilkens.com)

LANGUAGES

English (native), French, German, American Sign Language, Spanish, Danish
Programming languages: Python, SQL, R

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery
Association for Computers and the Humanities
Digital Americanists Society
Modern Language Association
Post45