

## **Katherine L McDonough**

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### **ACADEMIC APPOINTMENTS**

- 2023-present **Lancaster University**  
Lecturer in Digital Humanities, Department of History & Member, Data Science Institute
- 2023-present **The Alan Turing Institute**  
Senior Research Fellow
- 2019-23 **The Alan Turing Institute**  
Senior Research Associate in History, *Living with Machines* & PI, *Machines Reading Maps*
- 2018-19 **Stanford University**  
Academic Technology Specialist, Department of History & Center for Interdisciplinary Digital Research, Stanford University Libraries
- 2016-17 **Western Sydney University**  
Research Associate in Digital Humanities, *Mapping Print, Charting Enlightenment*
- 2015-16 **Bates College**  
Visiting Assistant Professor of Early Modern European History
- 2013-15 **Stanford University**  
Lecturer, History and Philosophy of Science & Program in Writing and Rhetoric (14-15), Humanities & Arts Initiatives Coordinator, Office of the Dean, School of Humanities & Sciences (13-14)

### **EDUCATION**

- 2013 Stanford University, Ph.D. 2013, M.A. 2009 (Department of History). Dissertation: *Building the Roads: Expertise, Labor, and Politics in Provincial France, 1675-1791*, Keith M. Baker, advisor; Paula Findlen, Dan Edelstein, James P. Daughton, committee
- 2009-11 Université de Haute Bretagne, Rennes, Visiting Researcher, Centre de Recherches Historiques de l'Ouest; École normale supérieure, Paris, Visiting PhD Candidate
- 2006 Johns Hopkins University, B.A. 2006 in History & French Literature (Phi Beta Kappa). Thesis: *Penser le pan-celtisme en Bretagne: la politisation d'une nouvelle nationalité, 1792-1839*, David A. Bell, advisor

### **PRIZE**

- 2023 American Historical Association, Roy Rosenzweig Prize for Creativity in Digital History, for *MapReader*.

### **GRANTS**

- 2024-25 AHRC Impact Acceleration Account Funding for "Landscape Change and Conservation with MapReader" (LCCM), PI, £19,720.
- 2023-24 AHRC funding to The Alan Turing Institute for "Data/Culture: Building Sustainable Communities for Tools and Data in the Arts and Humanities," Co-I 0.4 FTE. Total funding £1.6M.
- 2022-23 Gift from David Rumsey to continue "Machines Reading Maps" research and apply it to the David Rumsey Historical Map Collection, £75,000.
- 2021-23 NEH/AHRC New Directions for Digital Scholarship in Cultural Institutions Level II Grant, "Machines Reading Maps: Finding and Understanding Text on Maps," K. McDonough (UK PI), D. Holmes-Wong (US Project Dir.), Y.-Y. Chiang (US Co-PD). £250,000 and \$150,000 US

- 2021-24 LabEX ASLAN Grant, “GÉODE. Encyclopedic GEOgraphical Discourse: Writing about Geography in France from the Enlightenment to the Age of Wikipedia, D. Vigier (PI), L. Moncla (Co-PI), B. Crabbé, A. Falaise, T. Joliveau, O. Kraif, K. McDonough. 200,000 €
- 2019-20 MSH Lyon St-Étienne IDEX Grant, “GÉODISCO. Approche GÉOmatique et linguistique du DISCours encyclOpédique des Lumières à Wikipedia,” D. Vigier (PI), T. Joliveau, K. McDonough, L. Moncla. 23,000 €
- 2018-20 United Parcel Service Endowment Fund, Stanford University, “Early Modern Mobility: Knowledge, Communication, and Transportation, 1500-1800,” P. Findlen (PI), S. Sutherland, R. Midura, I. Lelkova, K. McDonough, L. Scholz. \$100,000 US
- 2016-17 Western Sydney University, Early Career Researcher Funding, \$5,254 AU & \$4,259 AU
- 2010-11 National Science Foundation, Dissertation Research Improvement Grant #1027316

## FELLOWSHIPS

- 2025 Collegium de Lyon, *Institut d'études avancées*, 3-month fellowship, April-July
- 2018 Neubauer Collegium and Textual Optics Lab, University of Chicago, Visiting Fellow, Oct-Nov
- 2015-16 Smithsonian Libraries, Washington, D.C., Dibner Library Fellow, June 2015 & Oct-Dec 2016
- 2013 John Carter Brown Library, Brown University, 2-month Fellowship, Mar-May
- 2011-12 Stanford Humanities Center, Mellon Foundation Dissertation Fellowship
- 2006-11 Stanford University History Department, Five-year Fellowship
- 2005-10 Beinecke Scholarship

## PUBLICATIONS

### Books in Progress

*Public Work: Making Roads and Citizens in Eighteenth-Century France*. (Proposal to be submitted to Cornell University Press in 2025.)

*Living with Machines: Computational Histories of the Age of Industry*, ed. by R. Ahnert, E. Griffin, and J. Lawrence, and co-authored by R. Ahnert, E. Griffin, J. Lawrence, K. Beelen, D. Wilson, K. McDonough, D. van Strien, R. Wood, K. Hosseini, J. Rhodes, G. Solomon, T. Hobson, S. Lo, B. McGillivray, N. Pedrazzini, A. Ciula, T. Ong, M. Ridge, M. Vieira, M. Coll-Ardanuy, M. Maricevic, C. Austin [in no order] (University of London Press; chapters published throughout 2024 on UoL Manifold platform, and print book published in 2025).

### Peer-Reviewed Journal Articles

- Submitted K. Beelen, J. Lawrence, D. Wilson, **K. McDonough**, “Whose News?” *American Historical Review*.
- 2022 A. Brenon, L. Moncla, & **K. McDonough**, “Classifying Encyclopedic Knowledge: Comparing Machine and Deep Learning Methods and Exploring Their Predictions,” *Data & Knowledge Engineering* 142.
- D. Vigier, **K. McDonough**, T. Joliveau, L. Moncla, & I. Lefort, « Les articles de géographie dans le *Dictionnaire Universel* de Trévoux et l'*Encyclopédie* de Diderot et d'Alembert, » *Langue française*.
- 2021 K. Hosseini, **K. McDonough**, D. van Strien, O. Vane, & D. Wilson, “[Maps of a Nation? Working with Digitised Ordnance Survey Maps as Sources for Historical Research.](#)” *Journal of Victorian Culture* 26, no. 2 (April), 284-299.
- 2019 **K. McDonough**, L. Moncla, & M. van de Camp, “[Named Entity Recognition Goes to Old Regime France: Geographic Text Analysis for Early Modern French Corpora.](#)” *International Journal of Geographical Information Science* 33, no. 12 (May), 2498-2522.

- 2012 “La corvée en Haute et Basse Bretagne: les pratiques et les plaintes des paroisses sur les grands chemins en 1769,” *Mémoires de la Société d’histoire et d’archéologie de Bretagne*, vol. XC, 329-349.

### Peer-Reviewed Book Chapters

- Accepted **K. McDonough**, D. Wilson, K. Beelen, & R. Wood, “MapReader: From Experiment to Software Library” chapter in *Living with Machines: Computational Histories of the Age of Industry*.
- Accepted K. Beelen, J. Lawrence, D. Wilson, **K. McDonough**, D. van Strien, R. Ahnert, “The Environmental Scan as a method for digital source criticism,” chapter in *Living with Machines*.
- 2024 “Maps as Data,” in *Debates in DH: Computational Humanities*, ed. by J. M. Johnson, D. Mimno, & L. Tilton (University of Minnesota Press).
- J. Rhodes, J. Lawrence, D. Wilson, K. Beelen, **K. McDonough**, “[Beyond the Tracks](#),” chapter in *Living with Machines*.
- 2022 G. Tolfo, O. Vane, K. Beelen, K. Hosseini, J. Lawrence, D. Beavan, & **K. McDonough**, “Hunting for Treasure: Living with. Machines and the British Library Newspaper Collection,” in *Digitised Newspapers: A New Eldorado for Historians?* Ed. by E. Bunout, M. Ehrmann, & F. Clavert (De Gruyter Oldenbourg).
- 2021 S. Burrows, M. Falk, R. Hendery, **K. McDonough**, “Stationers, Papetiers and the Supply Networks of a Swiss Publisher: The Société Typographique de Neuchâtel and the Paper Trade 1769-1789,” in *The Paper Trade in Early Modern Europe: Practices, Materials, Networks* (Brill).
- 2020 “Putting the Eighteenth Century on the Map: A Proposal for Early Modern French Geospatial Data Development,” in *Digitizing Enlightenment*, ed. by G. Roe & S. Burrows (Oxford Studies in the Enlightenment/Liverpool University Press), 277-303.
- 2018 “Un domaine provincial? Les États de Bretagne, le domaine royal et la construction des routes au XVIII<sup>e</sup> siècle,” in *Le financement des infrastructures de transport*, ed. by A. Conchon, D. Plouviez, & E. Szulman (Paris: Comité pour l’histoire économique et financière de la France), 55-80.

### Peer-Reviewed Conference Proceedings or Other Peer-Review Outputs

- 2024 L. Moncla, D. Vigier, **K. McDonough**, “GeoEDdA: A Gold Standard Dataset for Geo-semantic Annotation of Diderot & d’Alembert’s Encyclopédie,” *Proceedings for the GeoExT2024 Workshop at the European Conference on Information Retrieval (ECIR) 2024*, Glasgow, 24-28 March.
- 2022 K. Hosseini, K. Beelen, D. Wilson, & **K. McDonough**, “MapReader: A Computer Vision Pipeline for the Semantic Exploration of Maps at Scale,” *ACM SIGSPATIAL Geohumanities Workshop*.
- [Tutorial] D. van Strien, K. Beelen, M. Wevers, T. Smits, **K. McDonough**, “Computer Vision for the Humanities: An Introduction to Deep Learning for Image Classification” (Part 1 & Part 2), *Programming Historian*.
- 2021 M. Coll Ardanuy, K. Beelen, J. Lawrence, **K. McDonough**, et al, “Station to Station: Linking and enriching historical British railway data,” *Computational Humanities Research 2021*, 18 Nov.
- 2020 (poster) M. Coll Ardanuy, K. Hosseini, **K. McDonough**, A. Krause & F. Nanni, “[A Deep Learning Approach to Geographical Candidate Selection through Toponym Matching](#),” *SIGSPATIAL 2020 (28<sup>th</sup> International Conference on Advances in Geographic Information Systems)*, 3-6 Nov.
- M. Coll Ardanuy, F. Nanni, K. Beelen, K. Hosseini, R. Ahnert, J. Lawrence, **K. McDonough**, G. Tolfo, DCS Wilson, & B. McGillivray, “[Living Machines: A study of atypical animacy](#),” *COLING2020, The 28<sup>th</sup> International Conference on Computational Linguistics*, 8-11 Dec.
- D. Vigier, L. Moncla, A. Brenon, **K. McDonough**, et T. Joliveau, “Classification des entités nommées dans l’Encyclopédie ou dictionnaire raisonné des sciences des arts et des métiers par

une société de gens de lettres (1751-1772), *7<sup>e</sup> Congrès Mondial de Linguistique Française, Montpellier, France, 6-10 July.*

2019 M. Coll Ardanuy, **K. McDonough**, A. Krause, DCS Wilson, & K. Hosseini, “[Resolving Places, Past and Present: Toponym Resolution in Historical British Newspapers Using Multiple Resources](#),” *ACM SIGSPATIAL GIR’19, Proceedings of the 13<sup>th</sup> Workshop on Geographic Information Retrieval*, 1-6, Lyon, France, 28-29 Nov.

L. Moncla, **K. McDonough**, D. Vigier, T. Joliveau, & A. Brenon, “[Toponym disambiguation in historical documents using network analysis of qualitative relationships](#),” *GeoHumanities ’19: 3rd ACM SIGSPATIAL Workshop on Geospatial Humanities*, Chicago, IL, 5-8 Nov.

### Peer-Reviewed Software/Data Papers

2024 R. Wood, K. Hosseini, K. Westerling, A. Smith, K. Beelen, D. Wilson, and **K. McDonough**. “Mapreader: Open Software for the Visual Analysis of Maps,” *Journal of Open Source Software*. Zenodo, July 3, 2024. <https://doi.org/10.5281/zenodo.12636179>.

2022 M. Coll Ardanuy, D. Beavan, K. Beelen, K. Hosseini, J. Lawrence, K. McDonough, F. Nanni, D. van Strien, & D. Wilson. “[A Dataset for Toponym Resolution in Nineteenth-Century English Newspapers](#),” *Journal of Open Humanities Data* 8, no. 3, 1–7.

### Special Issues

Accepted K. McDonough & V. Vitale, eds, “Maps as Data” Forum for *Imago Mundi*.

### Datasets and Data Visualizations

2023 Machines Reading Maps Team, David Rumsey, Luna Imaging, Text on Maps Search and Annotation Interfaces, <https://www.davidrumsey.com/> (and w/V. Vitale, “Text on Maps Help Guide, <https://machines-reading-maps.github.io/rumsey/>).

2023 Machines Reading Maps Team, Text on Maps data and metadata from the David Rumsey Map Collection, Stanford Digital Repository, <https://searchworks.stanford.edu/view/rc349kh8402>

2022 K. Hosseini, D. Wilson, K. Beelen, K. McDonough, MapReader Railspace & Building Experiment Data, <https://zenodo.org/records/7147906#.ZG3YD-zMI-Q>

### Blog Posts

2022 V. Vitale, Z. Li, J. Kim, **K. McDonough**, “[How can machine learning help us unlock historical maps?](#)”, The Alan Turing Institute Blog, 25 March.

2021 C. Fleet, Z. Li, **K. McDonough**, V. Vitale, “[Maps with a sense of the past: what are synthetic maps, and why do we love them?](#)”, National Library of Scotland Blog, 4 Oct.

### Manuscripts in Preparation (in order of time to completion)

R. Ahnert, P. François, **K. McDonough**, K. Westerling, D. Wilson, “Where’s the Data? Why Historians Should Care about Digitization” for *History Workshop Journal*.

**K. McDonough**, D. Wilson, R. Ahnert, K. Westerling, T. Hobson, “The Living with Machines Newspaper Database,” for *Journal of Open Humanities Data*.

V. Vitale & **K. McDonough**, “Understanding Text on Maps: From Carto-semiotics to Digital Annotation Workflows,” for *History & Theory*.

**K. McDonough**, V. Vitale, R. Simon, D. Holmes-Wong, “Machines Reading Maps,” for *AI & Society*.

**K. McDonough** & DCS Wilson, “Off the Rails: How Rail Transformed the British Landscape,” for *Past & Present*.

**K. McDonough**, I. Gregory, L. Scholz, J. Taylor, “The Future of Spatial History,” for *American Historical Review* History Unclassified section.

**K. McDonough**, L. Moncla, A. Brenon, “Geographic Information in Enlightenment Encyclopedias,” for *Journal for the History of Ideas*.

### MEDIA COVERAGE

2024 “[How AI can make history](#),” *The Verge*, 15 Feb.

- 2023 [Stanford Libraries ReMix Newsletter](#) about Machines Reading Maps Summit at Stanford Libraries, April.
- 2022 [Press release](#) about Machines Reading Maps collaboration with David Rumsey Map Collection, The Alan Turing Institute, 25 March.
- 2021 [AHRC Pamphlet on Living with Machines Maps as Data research](#)
- 2016 “[‘Here be Bates’: A history lab puts the college on the map.](#)” *Bates College News*, 20 May.

## LECTURES AND PRESENTATIONS

### Invited Talks and Keynotes

- 2024 *EIDA Workshop on CV and Text on Historical Images*, Paris Observatory, 13 Dec.  
*Digital Innovation and Cartography Symposium*, Bodleian Library, Oxford, 10 Oct.  
 “Maps as Data,” *Department of Quantitative Theory & Methods Speaker Series*, Emory University, 10 April.  
 “Machines Reading Maps & MapReader,” [DHMaps Workshop](#), EPFL, Lausanne, Switzerland 25-26 April.  
**Keynote**, “Maps as Data,” *Bucknell University Digital Scholarship unConference*, [virtual] 20 March.  
 “Enlightenment Infrastructure: Making Digital Tools to Explore Historical Places,” [Voltaire Foundation Lecture Series in Digital Scholarship](#), University of Oxford, 7 March.
- 2023 Public Lecture, “Spatial Nodes and Edges: New Approaches to Networked Historical Data,” [Studium Generale “Vernetzte Kultur”](#), Philipps Universität Marburg. Organized by the Marburg Center for Digital Culture and Infrastructure, 29 Nov.  
**Keynote**, “Maps as Data,” Big Ten Academic Alliance [GIS Conference](#), 8 Nov.  
 “Maps as Data,” CLARIAH-VL & Flanders Open Humanities Research [“Reading Maps in a Digital Era” Workshop](#), 17 Oct.  
 “Can you ground truth the past?” Warsaw Spatial Humanities Seminar, 3 Oct.  
**Keynote**, “Living with Machines,” [2023 NISO \(National Information Standards Organization\) Humanities Roundtable](#), 20 June.  
*AI and Machine Learning Symposium*, National Library of Scotland, 25 April.  
**Keynote**, “Maps as Data,” AEOLIAN Network Workshop 6, [virtual] 24 March.
- 2021 **Keynote**, “[Linked Maps and Spatial Searching](#),” *Linked Pasts VII*, Ghent, [virtual] 17 Dec.  
 “Building Collaborations for Historical Research,” *Digitization and accessibility of cultural heritage collections* DIGARV Seminar (Swedish Research Council), [virtual] 29 Oct.  
 “Maps as [Open] [Humanities] Data: From Access to Analysis,” Reimagining Industry/Academic/Cultural Heritage Partnerships in AI Workshop, *AEOLIAN Network* (Artificial Intelligence for Cultural Organisations), [virtual] 25 Oct.
- 2020 “Spatial History as Digital History,” *Processes of Spatialization under the Global Condition Seminar*, University of Leipzig, Collaborative Research Centre 1199, [virtual] 10 June.
- 2018 “Anachronism in Spatial History,” *Textual Optics Lab Conference*, Neubauer Collegium, University of Chicago, May 30.
- 2013 “Living in the Material World: The Future of the Humanities,” Commonwealth Club of California, San Francisco, CA, Oct 14.

### Conference and Workshop Presentations<sup>1</sup>

Additional Living with Machines talks on “Maps as Data” from 2019 to 2022 included AIUK 2022, University of Aberdeen DH Workshops, *Spatial Humanities 2021*, *Deep Learning approaches in GIScience* session at the

<sup>1</sup> P indicates event postponed due to COVID-19. + indicates collaborative research. \* indicates panel organizer.

Royal Geographical Society Annual Conference, Yale-NUS conference *Unlocking Historical Maps of Southeast Asia*, IHR Digital History Seminar, British Library 21<sup>st</sup> Century Curatorship Talk, *Fantastic Futures 2019*, University of Manchester & University of Exeter DH seminars, and *The Association for Geographic Information-Scotland*.

- 2025 AHA Roundtable on AI and History, New York, NY, 3-6 Jan.
- 2024 “Using AI for French Historical Research,” Society for French Historical Studies Annual Conference, Long Island, NY [virtual], 16 March.  
 “How to Ask Maps Questions,” “Historians Among the Machines: From Reproducible Computational Experiments to Persuasive Historical Arguments” session, *American Historical Association Annual Meeting*, San Francisco, CA 4-7 Jan.  
 “Maps as Data for Open Historical Research,” Roundtable on AI and the Historical Profession: Applications and Implications, *American Historical Association Annual Meeting*, San Francisco, CA 4-7 Jan.
- 2023 +w/K. Beelen, DCS Wilson, J. Lawrence, K. Westerling, “The ‘Environmental Scan’ at work: radical contextualisation of newspaper collections for new historical research,” *DH2023 Long Paper*, 10-14 July.  
 +“Machines Reading Maps,” [La littérature au prisme des humanités numériques](#), Journée d’Étude, ObTIC/Institut d’Études avancées de Paris, March.
- 2022 +w/D. Wilson, J. Lawrence, J. Rhodes, K. Beelen, “Beyond the Tracks: connecting people, places and stations to re-assess the impact of rail in Victorian Britain,” *DH2022 Long Paper*, Tokyo [virtual], 25-29 July.  
 +w/V. Vitale, et al., “Machines Reading Maps: from text on maps to linked spatial data,” *DH2022 Short Paper*, Tokyo [virtual], 25-29 July.  
 P (poster) +w/Y.-Y. Chiang, R. Simon, V. Vitale “Text on Maps as Humanities Data,” *Datafication in the Historical Humanities*, German Historical Institute Washington, D.C., [virtual] 2-4 June.  
 “La corvée des grands chemins et les routes de Bretagne au XVIII<sup>e</sup> siècle,” *Chemins et circulations de l’âge du Bronze à nos jours en Bretagne*, Rennes, France, 31 May-2 June.  
 “DH Careers: Beyond the Professoriate,” CESTA, Stanford University, 15 Feb.  
 +w/D. Vigier, L. Moncla, “Les articles de géographie traitant de la France dans le *Dictionnaire Universel de Trévoux* (1704-1771) et l’*Encyclopédie* de Diderot et d’Alembert (1751-1772),” *Séminaire IXXI – Traitement de données complexes en Géographie*, 24 Jan.
- 2021 +w/R. Ahnert, K. Beelen, & DCS Wilson, [“Working with Machines.”](#) *IHSS Seminar*, QMUL, 17 Nov.  
 Roundtable, “The Future of Spatial History” w/L. Scholz, J. Taylor, I. Gregory originally for *Spatial Humanities 2021* but rescheduled as a Lancaster University *DHAngout*, 13 Oct.  
 +w/O. Vane, K. Hosseini, DCS Wilson, “Maps in Time: Visualising the Historical Ordnance Survey,” *Information+*, [virtual] 27 Sept-2 Oct.  
 \* “Beyond Repair: Forced Labor and Highway Construction in Eighteenth-Century France,” *Early Modern Mobility Conference*, Stanford University, [virtual] 14-16 May.
- 2020 “How to Build a Road: Coercive Labor, Public Works, and Provincial Power Struggles in 18<sup>th</sup>-c. Brittany,” *IHR Modern French History Seminar*, London, UK, [virtual] 6 July.
- 2019 \*+ “Living with Bias Roundtable,” *Victorian Data*, Charlottesville, VA, 15-16 Nov.  
 “Les archives des États de Bretagne: Un outil au service des travaux publics au XVIII<sup>e</sup> siècle,” *Les États provinciaux au travail en France et en Europe, XVI<sup>e</sup>-XVIII<sup>e</sup> siècle*, Avignon, France, 10-11 Oct.  
 Roundtable on text re-use with Keith Baker, Glenn Roe, Mark Olsen, Clovis Gladstone, and Robert Morrissey, *Digitizing Enlightenment IV*, Edinburgh, 14 July.

- \*+w/D. Edelstein, "Counting the Ways They Differ: Speech Patterns of the Montagnards and Girondins," *International Society for Eighteenth-Century Studies*, Edinburgh, Scotland, 14-19 July.
- + "Spatial History Between Maps and Texts: Lessons from the Eighteenth Century," *DH2019*, Utrecht, Netherlands, 9-12 July.
- (poster) +DH-WOGEM (Women & Gender Minorities in DH), "Gender and Intersectional Identities in the Digital Humanities," *DH2019*. \*Winner of conf. poster prize.
- "Reconceiving Space on Eighteenth-Century Roads," *Time in Space: Geohistorical Applications, Methods and Theories in GIScience*, Pisa, Italy, 5-28 June.
- "Reconceiving Space on Eighteenth-Century Roads," *Social History Society Annual Conference*, Lincoln, UK, 10-12 June.
- 2018 +w/L. Moncla, "Expérimentation de méthodes d'extraction d'informations géographiques pour les documents historiques," *HumaNS'2018 Atelier SAGEO*, Montpellier, France, 6 Nov.
- +w/E. Freedman, N. Marine-Street, and H. Sun, "A Retrospective 'Me Too'?: The Oral History Text Analysis Project (OHTAP)," *CESTA Seminar*, Stanford University, 5 Feb.
- 2018 "Reinterpreting the corvée des grands chemins: Road Building and the Public Domain in Brittany," *Interdisciplinary Workshop on Modern France and the Francophone World*, U. of Chicago, 2 Nov.
- "Knowledge Exchange: GeoHumanities," *DARIAH Beyond Europe: An International Exchange of Ideas and Knowledge on Digital Arts & Humanities*, Stanford University, 13-15 Sept.
- + "Geographical Horizons of the Enlightenment: Using Natural Language Processing to Study Historical Spatial Knowledge," *Spatial Humanities 2018*, Lancaster, UK, 20-22 Sept.
- "How to link networks?" *Digitizing Enlightenment III*, Oxford University, 18-20 July.
- \* "Listening to History: Argument and Form in Podcasts about History," *Society for the History of Authorship, Reading and Publishing (SHARP)*, Western Sydney University, Parramatta, Australia, 10-12 July.
- \* "Reframing the History of the corvée des grands chemins/corvée royale: A Generational Approach," *Society for French Historical Studies (SFHS)*, Pittsburgh, PA, 8-10 March.
- 2017 + "Mapping the Encyclopédie to Make an Early Modern Gazetteer," *Digitizing Enlightenment II*, Radboud University, Nijmegen, The Netherlands, 19-20 June.
- + "Mapping the French Novel: Lessons and Results from the Digitization of the Print Bibliography of 18th-century French Novels," *SHARP*, University of Victoria, BC, 9-12 June.
- 2016 (poster) "Creating an Early Modern Gazetteer," 2<sup>nd</sup> International Linked Pasts Symposium, Pelagios Commons, Facultad de Filologia, UNED, Madrid, Spain, 15-16 Dec.
- 2016 "Seeing and Teaching Geospatial Uncertainty with Eighteenth-Century French Gazetteers," *Social Science History Association*, Chicago, IL, 17-20 Nov.
- + "Mapping Print, Charting Enlightenment," *Creating Spatial Historical Knowledge*, German Historical Institute, Washington, D.C., 20-22 Oct.
- "Information Management and the Battle over Public Works Administration in 18<sup>th</sup>-c. Brittany," *George Rudé Seminar in French History & Civilisation*, Western Sydney University, 13-16 July.
- "A Proposal for a Historical GIS of France," *1<sup>st</sup> Digitizing Enlightenment Workshop*, Western Sydney University, 12-13 July.
- "Paying for Highways in 18<sup>th</sup> c. Brittany," *Le financement des infrastructures de transport*, l'Université Paris I - IDHES, l'Université de Nantes, l'IGPDE et le Comité d'histoire du Ministère de l'écologie, du développement durable et de l'énergie, 22-23 June.
- "Privileging the Provincial in 18<sup>th</sup> c. Brittany: The Royal Domain and Public Works," *SFHS*, Nashville, TN, 3-6 March.

- 2015 \**“Between Antiquity and Modernity: Building Roman Roads in 18<sup>th</sup> c. France,” Canadian Society for Eighteenth-Century Studies Conference, Vancouver, British Columbia, 14-17 Oct.*  
*“Nature on Paper: Public Works Archives and the Rural Environment,” International Society for Eighteenth-Century. Studies Congress, Rotterdam, Netherlands, 27-31 July.*  
*“Reinterpreting the corvée des grands chemins: Road Building and the Public Domain in Brittany,” 1<sup>st</sup> Weider History Workshop on Revolutionary Economic Practices, Florida State University, Tallahassee, FL, 24-25 April.*  
 \**“What is Public Utility? Roads and Communities in Western France, 1757-90,” American Historical Association Annual Meeting, New York City, NY, 2-5 Jan.*
- 2013 \**“Finding Time to Build Roads in Early Modern France: Charles Thevenon and Early Public Works in Brittany,” History of Science Society Annual Meeting, San Diego, CA, 15-18 Nov.*  
 \**“A History of Inventories: Processing the Old Regime in French Departmental Archives,” Western Society for French History (WSFH) Annual Meeting, Banff, Alberta, 11-13 Oct.*  
*“Pathways to Highways: Local and Learned Technologies of Road Construction in Early Modern France,” Society for the History of Technology Annual Meeting, Copenhagen, Denmark, 4-6. Oct.*  
 w/A. Conchon, *“Road construction sites in 18<sup>th</sup> c. France: Labor and administration in action,” 4<sup>th</sup> Intl. Congress on Construction History, Paris, France, 3-7 July.*
- 2012 *“Making the corvée des grands chemins work in 18<sup>th</sup> c. Brittany,” Imposer le travail: la corvée en Europe (XII<sup>e</sup>–XX<sup>e</sup> siècles), Université de Paris I & Institut d’Histoire économique et sociale, Paris, France, 28 June.*
- 2011 \**“From royal domain to public domain: 18<sup>th</sup> c. highway construction and public utility in rural France,” WSHF, Portland, OR, 10-12 Nov.*  
*“Roads as boundaries and bridges: 18<sup>th</sup> c. highway construction in Brittany, France,” Social History Society Annual Conference, Manchester, UK, 12-14 April.*  
*“La corvée en Haute et Basse Bretagne: les pratiques et les plaintes des paroisses sur les grands chemins en 1769,” Société d’histoire et d’archéologie de Bretagne Annual Meeting, Brest, France, 1-3 Sept.*
- 2008 *“The Coastal corvée in Northern Brittany: from water- to land-based transport in the eighteenth century,” WSHF, Québec, Québec, 6-8 Nov.*  
*“Traveling through the Encyclopédie: Imagining Travel in the World of the philosophe,” The Encyclopédie of Diderot and d’Alembert: A Project for Enlightenment, University of Chicago, Chicago, IL, 17-18 March.*

### Campus Talks

- 2022 w/K. Hosseini and D.C.S. Wilson, “MapReader,” Turing Tools, Practices, & Systems Programme Lightning Talk, 10 March.  
 w/K. Hosseini, “Maps as Data”, Turing Catch Up, 24 Jan.
- 2021 w/R. Ahnert, K. Beelen, & DCS Wilson, “Working with Machines,” IHSS Seminar, QMUL, 17 Nov.  
*P “Where is the Enlightenment? Space and geography in Diderot and d’Alembert’s Encyclopédie,” Digital Approaches to Early Modern Studies, University of Limerick, 3 March.*
- 2019 +\*E. Freedman, N. Marine-Street, and H. Sun, “A Retrospective ‘Me Too’?: The Oral History Text Analysis Project (OHTAP), CESTA Seminar, 5 Feb.
- 2018 *“Anachronism in Spatial History: Lessons from the Eighteenth Century,” Department of History, University of Utrecht, 1 Oct.*
- 2016 *“Where was the Enlightenment?” Digital Humanities Research Group Seminar, Western Sydney University, Parramatta NSW, Australia, 8 Oct.*



“Privileging the Provincial in 18th-century France: What happens when we pay attention to the administration of highways and the royal domain in Brittany?” Department of History, Bowdoin College, Brunswick, ME, 15 April.

- 2013 “Building Communities: Infrastructure and Labor in French Atlantic Colonies, 16<sup>th</sup>-18<sup>th</sup> c.,” Fellow’s Talk, John Carter Brown Library, Brown University, Providence, RI, 8 May.
- 2012 “Public and private expertise in 18<sup>th</sup> c. France: Building roads in Brittany,” Medieval and Early Modern Studies Workshop, Stanford Humanities Center, 20 Oct.
- 2010 “Working on the *grands chemins*: the maps and men of highway construction in 18<sup>th</sup> c. Brittany,” French Culture Workshop, Stanford Humanities Center, 21 Oct.
- 2009 “How Many Peasants Does it Take to Build a Road? Road Construction and Forced Labor in 18<sup>th</sup>- and 19<sup>th</sup>-c. France,” French Culture Workshop, Stanford Humanities Center, 22 Jan.

### Conference and Workshop Organization

- 2024 3 workshops for Data/Culture project (Turing) to build sustainable communities around tools and data developed on Living with Machines.
- 2023 *MapReader* Launch, The Alan Turing Institute, 7-8 June.  
*Machines Reading Maps Summit*, Stanford University, 20-21 April.  
*MapReader* Workshop, The Alan Turing Institute, 13-14 March.
- 2022-23 Convened w/L. Moncla, D. Vigier, I. Lefort, & T. Joliveau, *Séminaire IXXI - [Traitement données complexes en Géographie](#)*.
- 2021 Convened w/L. Moncla, D. Vigier, & T. Joliveau, *Les évolutions du discours géographique entre le 17<sup>e</sup> s. et le 19<sup>e</sup> s.*, University of Chicago Paris Center, [virtual] 15-16 June.  
Convened w/P. Findlen, L. Scholz, S. Sutherland, I. Lelkova, L. Barleta, & R. Midura, *Early Modern Mobility*, 2-day international conference, Stanford University, [virtual] 14-16 May.
- 2020- Chair, [Computer Vision for Digital Heritage Special Interest Group](#), The Alan Turing Institute, ongoing.
- 2020-22 Convened w/F. Nanni, L. Talboom, & M. Sharan, [Humanities & Data Science Discussion Group](#), The Alan Turing Institute, Jan 2020-2022.
- 2018 Guest convener, *Reconstructing Historical Networks Digitally*, GHI, Washington, D.C., 25-27 Oct.  
Scientific and local organizing committees, *Society for the History of Authorship, Reading and Publishing (SHARP) Annual Conference*, Sydney, 10-12 July.
- 2017 Co-convener w/D. Edelstein and P. Findlen, *Bakerfest*, conference to honor Keith M. Baker, Stanford University, 3-4 Feb.
- 2016 Co-convener w/S. Burrows, *George Rudé Seminar*, Western Sydney University, Parramatta, NSW, Australia, 13-16 July.  
Coordinator, *1<sup>st</sup> Digitizing Enlightenment Symposium*, Western Sydney University, Parramatta, NSW, Australia, 12-13 July.
- 2013 Coordinator, *Hoagland Workshop on Data Visualization in the Humanities*, Center for Spatial and Textual Analysis, Stanford University, Winter Quarter .
- 2011-12 Co-convener (with Lauren Jarvis), *Stanford History Archival Workshop*, Stanford University.
- 2011 Coordinator, *Scripting Revolutions* conference, Stanford University, 3-5 Nov.
- 2008-09 Coordinator, *French Culture Workshop*, Stanford Humanities Center.

### Conference Participation

- 2024 Chair/Discussant, *Where Does Map History Go Now? Symposium*, Royal Geographical Society, London, 2 Sept.
- 2020 Discussant, *Visualizing Empire* Project, University of Nevada at Reno, 9-10 Jan.

- 2018 Chair, “Bridging Divides, Colonial Archives,” *DH2018*, Mexico City, Mexico, 26-29 June.  
 Discussant, *Legal Diffusion in the Late Medieval Church: Local Ecclesiastical Legislation in France and its Neighbors, 1215-1500*, organized by Rowan Dorin and Christine Barralis, Stanford University, 18 April.  
 Discussant, “Authority Files” panel, *Early Modern Collection Catalogues: Open Questions, Digital Approaches, Future Directions* Workshop, British Museum/UCL Centre for Digital Humanities, 15-16 Feb.
- 2016 Chair/Discussant, “Trading Networks Across Space and Time,” Social Science History Association Conference, Chicago, IL, 17-20 Nov.  
 Chair, Panel on Peasants and the Early Modern French State, organized by Stephen Miller, SFHS, Nashville, TN, 3-6 March.

## TEACHING EXPERIENCE

### Semester/Quarter/Term-length Courses

#### Lancaster University

- 2024-25 1) *Spatial Technologies for Humanities Research*, MA Seminar; 2) *Digital Texts*, MA Seminar  
 2023-24 *Spatial Technologies for Humanities Research*, MA Seminar

#### Bates College

- 2015-16 1) *Nature & Empire*, intermediate undergraduate seminar; 2) *Enlightenment & Revolution*, intermediate undergraduate seminar; 3) *Innovations in Mapping: From Paper to Pixels*, intensive 3-week summer undergraduate course; 4) *Early Modern Europe, 1400-1750*, survey lecture; 5) *The Secret History of French Peasants*, advanced undergraduate seminar

#### Stanford University

- 2014-15 *Science in the Making-Integrated Learning Environment* (Year-long [3 quarter] History of Science survey course dir. by Paula Findlen. Responsible for writing-intensive module.)  
 2009 *Mobility in France and the Self: People, Products, and Ideas in Motion, 1700-2000*, methods seminar

#### Menlo College

- 2012 *World History: Deep History to 1500*, survey lecture

### Guest Lecturing

- 2023 “Networks in Spatial History,” Digital Humanities MA Seminar, Philipps-Universität Marburg, 29 Nov.  
 2022 w/L. Moncla, “Named Entity Recognition,” Sunoikisis Digital Classics, 23 June.  
 2021 “Spatial Humanities,” *Digital Humanities Doctoral School*, Stockholm University, 31 Aug.  
 2020 “Being a Peasant,” *Early Modern Europe* Survey, S. Sutherland, MTSU, 15 June.  
 2019 “What is Digital History?” *US in the World* Graduate Seminar, G. Chang, Stanford, 30 Jan.  
 2018 “Fieldpapers, Open Street Maps, and Countermapping,” *Maps in the Modern World* First-year Undergraduate Seminar, K. Wigen, Stanford, 9 Oct.  
 “Network Analysis in DH,” *Introduction to Digital Humanities*, L. Scholz, Stanford, 25 April.  
 2017 “A la recherche des chiffres clés de la construction des routes bretonnes au XVIII<sup>e</sup> siècle,” *Économies et sociétés pré-industrielles* Seminar, A. Conchon, Université de Paris-1 (Sorbonne), 18 Jan.

### Workshops and Tutorials

- 2024 w/D. Wilson and R. Wood, MapReader Workshop, Spatial Humanities Conference, Bamberg, Germany, 25 Sept.

- 2023-24 UK-based *MapReader* Events: *MapReader* Beta Users Workshop, The Alan Turing Institute, 13-14 March; Launch, The Alan Turing Institute, 7-8 June; 3 *MapReader* workshops in 2024 as part of Data/Culture project.
- 2023 +w/A. Smith & D. Wilson, *MapReader* Workshop for AHNIMO Summer School and the Sorbonne University Centre for AI, 27 June.
- 2022 + w/D. van Strien, T. Smits, & M. Wevers, Lessons on Computer Vision for *Programming Historian*, [Part 1](#) & [Part 2](#)
- 2021 +\* w/V. Vitale, Tutorial on Map Annotation using Recogito for *LinkedPasts7*, 15-16 Dec
- 2020 \*+w/M. Coll Ardanuy et al., [DeezyMatch Tutorial for LinkedPasts6](#), 7-16 Dec
- +w/L. Moncla, [Geoparsing French Historical Text](#), 24 June
- + w/J. L. Leidner, R. S. Purves, & B. Martins, [Text Meets Space: Tutorial on Geographic Information Retrieval](#), *European Conference on Information Retrieval ECIR2020* [virtual], 14 April
- 2018-19 [Topics in Geographic Text Analysis](#), Stanford CIDR Workshops, 29 Jan
- Digital Workflows for Archival Research*, 24 May, 1 June, 28 Nov
- [Why to use Databases in Humanities Research](#), Stanford CIDR Workshops, 24 May
- [Geographic Text Analysis](#), Stanford CIDR Workshops, 27 Nov

### Undergraduate Theses Advised

**Primary Advisor:** L. Pettinato, “Rethinking the Unthinkable: An Analysis of the Haitian Revolution in Anglophone Historical Representations, 1792-1853,” (Bates College, Winter 2016) and S. Brooks, “Cannibalism in the Early Modern Travel Narrative as a Reflection on European Understandings of Themselves in the 16<sup>th</sup> century” (Bates College, Winter 2016).

**Committee Member:** M. McCabe, “Private Union, Public Conflict: Life and Labor at Michelin in the Twentieth Century” (Bates College Honors thesis, 2016).

### Other Teaching

- 2012-13 **Hume Writing Center, Stanford University, Writing Consultant.** Provided individual tutoring for undergraduate and graduate students in humanities writing.
- 2006, 2008 **Duke University, Talent Identification Program, Durham, NC and Paris, France.** Instructor of record (2008) and teaching assistant (2006) for three-week study abroad course in Paris for 22 secondary students. Re-designed the course to feature on-site learning in 2008.
- 2004-05 **Lycée Emile Zola, Rennes, France, English Teaching Assistant.** Independent instruction of French high school students.

### SUPERVISION & MANAGEMENT

Postdoctoral Research Associate – on Machines Reading Maps: Valeria Vitale (2021-2022). Research Software Engineer– on Machines Reading Maps: Rainer Simon (2021-24).

### SERVICE TO PROFESSION

**PhD Examination:** External examiner for Giovanni Pala, DPhil, Magdalen College, Oxford (March 2024).

**Board Membership: Editorial board** *Computational Humanities Research* (2024-), *Digital Enlightenment Studies* (2023-), *C19 Data Collective* (2023-); **Advisory board** for World Historical Gazetteer (Pittsburgh), Intertextual Bridges (Chicago), pictoriAI (2024-); **Steering Committee** for Linked Pasts (2022-).

**Prize Committee:** Richard Deswarte Prize in Digital History (2022).

**Peer Review: National funding councils** - Swiss National Science Foundation, Research Foundation Flanders; **journal reviews** - *JOSIS*, *Digital Scholarship in the Humanities*, *Canadian Journal of History/Annales canadiennes d’histoire*; *Historical Methods*; *Literary Geographies*; *Nature Communications*;

**book manuscripts** - Cambridge University Press; **conference reviews** – DH2019-23; Spatial Humanities 2021-24; ACM SIGSPATIAL Geohumanities 2019-23; **program committees** – AI4LAM/Fantastic Futures 2020-21, ACM SIGSPATIAL Geohumanities and GIR Workshops 2019-23, ECIR GeoExT Workshop 2023-24, Spatial Humanities 2021-24.

**Institutional Service: Lancaster University** - North America Strategy Group (Spring 2024-); Scientific Committee for Faculty of Arts & Social Sciences Artificial Intelligence Research and Strategy (March 2024-). **The Alan Turing Institute** - Arts, Humanities, and Cultural Heritage Steering Group (January 2020-). **Stanford University** - Dean’s Task Force for Undergraduate Education in the Humanities (2014); Graduate Representative, Early Modern European History Ph.D. admissions (2009).

**Other Service:** JISC Task & Finish Group on AI for the Humanities (2023); H-France Web and Social Media Editor (2013–2023).

#### **TRAINING, LANGUAGES, AFFILIATIONS**

2011, 2012, 2017	Digital Humanities Summer Institute (DHSI), Victoria, BC, Canada, <i>Digitization Fundamentals, Digital Humanities Databases, RDF and Linked Open Data</i>
2015	5-day Orientation to Teaching at a Liberal Arts College, Bates College, August
2014	5-day Pedagogical Training for Teaching Writing to Undergraduates, Program in Writing & Rhetoric, Stanford University, September
2013	THATCamp AHA (The Humanities and Technology unconference), New Orleans, LA, January
2011	THATCamp Bay Area, Mountain View, CA, October
2008	Undergraduate Teaching Methodology Course Development Workshops, Stanford History Department, Winter
2007	Approaches to Teaching History Workshops, Stanford History Department, Spring

#### **Languages**

French: near native

Italian: reading proficiency

German: reading proficiency

#### **Professional Affiliations**

Fellow, Royal Historical Society, 2023-

American Historical Association, 2005–

Alliance of Digital Humanities Organizations/Association for Computers and the Humanities, 2011-

History of Science Society, 2011–

Society for French Historical Studies, 2010–

Western Society for French History, 2007–