

Dr. Ryan Heuser

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EDUCATION

Stanford University

Ph.D., English, September 2019

Dissertation: *Abstraction: A Literary History*

Committee: John Bender, Mark Algee-Hewitt, Mark Greif

M.A., English, June 2013

University of Florida

B.A., English (summa cum laude), May 2008

EMPLOYMENT

Princeton University

Research Software Engineer, 2022-

University of Cambridge

Junior Research Fellow, 2019-2022

Stanford Literary Lab

Associate Research Director, 2011-2015

Stanford Center for Spatial and Textual Analysis (CESTA)

Humanities Research Programmer, 2010-2011

BOOK IN PROGRESS

Abstraction: A Literary History. (expected completion 2023).

ARTICLES

[Submitted] “Antimetricality and the Rhythms of Prose.” *Language*. (with Arto Anttila and Paul Kiparsky).

“Mapping London’s Emotions.” *New Left Review* 101 (2016): 63-91. (with Franco Moretti and Erik Steiner).

“Learning to Read Data: Bringing out the Humanistic in the Digital Humanities.” *Victorian Studies* 54.1 (2011): 79-86. (with Long Le-Khac).

BOOK CHAPTERS

[Accepted for publication] “Computing Koselleck: Modeling Semantic Revolutions, 1720-1960.” *Explorations in the Digital History of Ideas*. Ed. Pete de Bolla. Cambridge University Press. Forthcoming.

“Mapping the Emotions of London in Fiction, 1700-1900: A Crowdsourcing Experiment.” *Literary Mapping in the Digital Age*. Ed. David Cooper, Chris Donaldson, and Patricia Murrieta-Flores. Ashgate. 2016. (with Mark Algee-Hewitt, Van Tran, Annalise Lockhart, and Erik Steiner).

LITERARY LAB PAMPHLETS

Reprinted in *Canon/Archive: Studies in Quantitative Formalism from the Stanford Literary Lab*, ed. Franco Moretti (New York: n+1, 2017)

“The Emotions of London.” *Stanford Literary Lab* 13 (2016). (with Franco Moretti and Erik Steiner).

“Canon/Archive: Large-scale Dynamics in the Literary Field.” *Stanford Literary Lab* 11 (2016). (with Mark Algee-Hewitt, Sarah Allison, Marissa Gemma, Franco Moretti, and Hannah Walser).

“On Paragraphs: Scale, Themes, and Narrative Form.” *Stanford Literary Lab* 10 (2015). (with Mark Algee-Hewitt and Franco Moretti).

“Style at the Scale of the Sentence.” *Stanford Literary Lab* 5 (2013). (with Sarah Allison, Marissa Gemma, Franco Moretti, Amir Tevel, and Irena Yamboliev).

“A Quantitative Literary History of 2,958 Nineteenth-Century British Novels: The Semantic Cohort Method.” *Stanford Literary Lab* 4 (2012). (with Long Le-Khac).

“Quantitative Formalism: An Experiment.” *Stanford Literary Lab* 1 (2011). (with Sarah Allison, Matthew Jockers, Franco Moretti, and Michael Witmore).

TEACHING

Instructor

“Automating the Bechdel Test: Computing Gender Bias across Media” (Cambridge Digital Humanities) [Spring 2022]

“Practical Criticism” (Cambridge English)

“Literary Text Mining” (Stanford English)

Teaching Assistant

“Introduction to English II: Milton and Melville” (Stanford English)

“Shakespeare” (Stanford English)

Workshop Instructor

“Introduction to Word Embedding Models for the Humanities” (University of Trier)

“Introduction to Python for Digital Humanities” (Stanford Center for Spatial and Textual Analysis)

HONORS AND AWARDS

Alden Dissertation Prize, Stanford University, 2019.

Paul Fortier Prize, Alliance of Digital Humanities Organizations, 2017.

INVITED TALKS

“Cultures of Abstraction: Artificial Intelligence and Distant Reading.” Observatoire des Textes, des Idées et des Corpus. Sorbonne University. 2021.

“Computing Intellectual History: Word Embedding Models and Lexical Semantic Change, 1720-1960.” University of Birmingham Department of English Language and Linguistics. 2021.

“*Sattelzeit* and Semantic Change.” Revolutionary Translations; Translators as Revolutionaries. King’s College London. 2020.

“Abstract Realism.” Eighteenth-Century and Romantic Studies Graduate Seminar. University of Cambridge. 2020.

“Computational Keywords: Historical Semantics and Cultural History, 1660-1830.” University of Trier. 2018.

“Computational Keywords: Abstractions of Value, 1750-1850.” Yale DHLab and the 18th/19th-Century Colloquium. 2018.

“Word Vectors in the Eighteenth Century.” Institute for Pure and Applied Mathematics: Workshop IV: Mathematical Analysis of Cultural Expressive Forms: Text Data. Los Angeles. 2016.

“Affect and Space as Mediating Technologies: Reflections from and on the ‘Emotions of London’ Literary Lab Project.” Cultural Analytics. Chicago. 2015.

CONFERENCE PRESENTATIONS

With refereed proceedings published online:

“Word Vectors in the Eighteenth Century.” Digital Humanities. Montreal. 2017. [*Awarded Paul Fortier Prize*]

“Building Blocks of Fiction: Literary Lexical Bundles, 1700-1900.” Digital Humanities. Krakow. 2016. (with Marissa Gemma).

“Knowledge Networks, Juxtaposed: Disciplinarity in the Encyclopédie and Wikipedia.”

- Digital Humanities. Sydney. 2015. (with Mark Algee-Hewitt and John Bender).
 “Phonological and Metrical Variation across Genres.” Annual Meeting of Phonology.
 Vancouver. 2015. (with Arto Anttila).
 “Mapping the Emotions of London in Fiction, 1700-1900: A Crowdsourcing Experiment.”
 Digital Humanities. Sydney. 2015. (with Mark Algee-Hewitt, Van Tran, Annalise
 Lockhart, and Erik Steiner).
 “Transhistorical Poetry Project Phase II: Metrical Form.” Digital Humanities. Lausanne.
 2014. (with Mark Algee-Hewitt, Maria Kraxenberger, J.D. Porter, Jonathan
 Sensenbaugh, and Justin Tackett).
 “The Cryptic Novel: A Computational Taxonomy of the Eighteenth-Century Literary Field.”
 Digital Humanities. Lausanne. 2014. (with Mark Algee-Hewitt, Laura Eidem, Ryan
 Heuser, Anita Law, and Tanya Llewellyn).

Other presentations:

- [*Upcoming*] “Abstract Realism.” American Society for Eighteenth-Century Studies.
 Baltimore, MD. 2022.
 [*Upcoming*] “Prose Rhythm and Antimetricality.” Linguistics Society of America.
 Washington, DC, USA. 2022. (with Arto Anttila).
 “The Rise and Fall of Antimetricality.” Bridging Gaps, Creating Links: The Qualitative-
 Quantitative Interface in the Study of Literature. Padua, Italy. 2018. (with Paul
 Kiparsky).
 “Associationism, Analogy, and Computationalism.” Annual Meeting of the Western Society
 for Eighteenth-Century Studies (WSECS). Santa Barbara. 2017.
 “ELIZA, Virtual Therapist: or, Notes toward a Virtual Humanities.” Modern Language
 Association. Philadelphia. 2017.
 “Phonological and Metrical Variation across Genres.” Linguistics Society of America.
 Washington, D.C. 2015. (with Arto Anttila).
 “Virtual Poetics: A Thought Experiment.” SyncDH. Santa Barbara. 2015.

PRESS COVERAGE

- “How Data Analysis Can Enrich the Liberal Arts.” The Economist. 2020.
 “The Book Crunchers.” New York Times. 2017.
 “The Stanford Literary Lab’s Narrative.” New York Times. 2017.
 “Why the London of British Literature Barely Changed for 200 Years.” Atlas Obscura. 2017.
 “Researchers Map the Emotions of Fictional London.” Mental Floss. 2017.
 “Stanford Researchers Map the Feelings Associated With Different Parts of London.”
 Smithsonian Magazine. 2017.
 “Stanford Literary Lab Maps ‘Emotions in Victorian London’.” New York Times. 2015.

ADVISORY BOARDS

WhatEvery1Says (WE1S), directed by Alan Liu at the University of California–Santa Barbara, funded by the Andrew W. Mellon Foundation

Textual Geographies, directed by Matthew Wilkens at the University of Notre Dame, funded by the National Endowment for the Humanities

LANGUAGES AND SKILLS

German: proficient reading, writing, and speaking

French: proficient reading

Programming: fluent in Python, proficient in R

Data science: proficient in machine learning, data visualization, network analysis, GIS