

Employment

2020– Postdoctoral Scholar, DataLab, University of California, Davis

Education

2020 Ph.D. English Literature, University of California, Santa Barbara

Dissertation: “Literalism: Reading Machines Reading”

Committee: Alan Liu (co-chair), Rita Raley (co-chair), Jeremy Douglass, Wolf Kittler

2016 M.A. English Literature, University of California, Santa Barbara

2013 B.A. English Literature, University of Iowa

Publications

Journal Articles

“Error Aligned,” *Textual Cultures: Texts, Contexts, Interpretations* 12.1 (Spring 2019): 155–182.
doi.org/10.14434/textual.v12i1.27153

“Fugue States,” *Journal of Sonic Studies* 16: “Materials of Sound,” ed. Caleb Kelly (May 2018).
researchcatalogue.net/view/380109/380110

Book Chapters

“Sonic Materialism and/as Method,” *The Bloomsbury Handbook of Sonic Methodologies*, eds.
Michael Bull and Marcel Cobussen, London: Bloomsbury (December 2020)

Essays and Reviews

Review, *The Cultural Life of Machine Learning: An Incursion into Critical AI Studies*, eds.
Jonathan Roberge and Michael Castelle, Cham: Palgrave Macmillan (2021). *American Literature* (forthcoming)

Review, *Eavesdropping: A Reader*, eds. James Parker and Joel Stern, Melbourne: City Gallery
Wellington, Liquid Architecture, and Melbourne Law School (2019). *Journal of Sonic Studies* (January 2021). researchcatalogue.net/view/558982/1115318

“A Font of Fonts,” with Fred Benenson, *The Future of Text: A 2020 Vision*, ed. Frode Hegland
(November 2020). doi.org/10.48197/fot2020a

“The Unfamiliar,” with Jeremy Douglass, Caterina Lazzara, and Rita Raley, *Los Angeles Review of Books* (June 2015). lareviewofbooks.org/article/the-unfamiliar

Digital Projects

An extensive portfolio of these projects is available at tylershoemaker.info/research.

2015– English Broadside Ballad Archive, Digital Humanities, Media, and Programming Specialist

The English Broadside Ballad Archive digitizes, transcribes, and creates analytical tools for over 9,000 seventeenth-century ballads. My responsibilities to the project have included extensive web development work, data-driven text analysis, project management, grant writing, ballad transcription, cataloguing, and training and supervising research assistants.

Website: ebba.english.ucsb.edu

- 2022– Shared Cataloging of Early Printed Images, Project Manager and Natural Language Processing Lead
 The Shared Cataloging of Early Printed Images project links together collections of early modern prints (woodcuts, line drawings, etc.) using a suite of image recognition technologies. In addition to general project management, my contributions involve supplementing our computer vision models with linguistic data to improve the project’s search capabilities.
 Website (project announcement): datalab.ucdavis.edu/collaborations
- 2020–2022 BioPortal, Technical Lead
 BioPortal tracks disease outbreaks in livestock, providing epidemiological data to academic researchers, veterinarians, and farmers. With BioPortal, I am investigating whether language modeling might be leveraged to find indications of past, ongoing, or future outbreaks in both social media data and histopathology reports.
 Website: bioportal.ucdavis.edu
- 2020–2021 wateReview, Technical Lead
 wateReview is a corpus exploration platform for a data-driven literature review about water management in Latin America. I designed and built the platform, along with its many interactive visualizations (a multi-faceted topic model viewer, network graphs, chord diagrams, and more).
 Website: watereview.ucdavis.edu
- 2017–2020 The Maker Lab, Research Assistant
 The Maker Lab integrates centuries of text technologies—from recreations of early modern inking balls to 3D-printed ‘woodcuts’—to investigate the history and making of print. I assisted in the installation of a replica nineteenth-century printing press, fabricated type for workshops, replicated printing tools, and trained faculty and graduate students to use the Lab’s facilities.
 Website: emc.english.ucsb.edu/maker-lab
- 2017–2020 WhatEvery1Says, Research Assistant
 WhatEvery1Says studies public discourse about the humanities, using topic modeling to analyze a corpus comprised of several hundred thousand news articles. My contributions to the project included corpus design, data preparation experiments, optimizing topic models for human readability, and developing outlets for research dissemination.
 Website: we1s.ucsb.edu

Awards, Grants, and Honors

- 2018 Multicampus Graduate Working Group Grant for “Cal DH,” University of California Humanities Research Institute
- 2017 Regents Fellowship, University of California, Santa Barbara
 The William and Marjorie Frost Award for Scholarly Writing for “Fugue States,” Department of English, University of California, Santa Barbara
- 2014 Regents Fellowship, University of California, Santa Barbara

Presentations and Conferences

- 2022 Participant, Model Realities seminar, German Studies Association, annual conference, Houston, September 15–18
 “Preprocessing the Word,” Source Code Criticism workshop, University of Basel, March 25–26

- 2020 “Type After the Code Point,” Before and Beyond Typography conference, Stanford University, June (rescheduled due to COVID-19)
 “Plaintext Scrim,” Annual conference, Modern Language Association, Seattle, January 9
- 2019 “Script Hacks and Visual Spoofs,” Creative Multilingualism conference: “Scriptworlds,” University of California, Santa Barbara, May 3
 “The Edge of Sense,” International conference, Society for Textual Scholarship, The New School, New York City, March 21
 “The Error that Catches the Eye,” Annual conference, Modern Language Association, Chicago, January 5
- 2018 “Scanbed Poetics,” Annual conference, Electronic Literature Organization, Université du Québec à Montréal, August 14
 “Font Futures,” Wireframe Studio symposium: “Future Tripping,” University of California, Santa Barbara, April 24
 “Wordless Labor,” Annual conference, Modern Language Association, New York City, January 6
- 2017 “Linotypes and Linotext Minima,” Cal DH work session, University of California, Los Angeles, November 2
 “Fugue States,” Annual conference, American Comparative Literature Association, Universiteit Utrecht, July 6–9

Digital Arts Practice

- 2019 “.notyetdef,” with Fred Benenson
 This project trains a generative adversarial network on Unicode-enabled font files to create hybrid glyphs from extant script systems. These new glyphs serve as a vantage from which we are able to survey font internationalization and global script representation in computing. A sample is available at tylershoemaker.info/research/notyetdef.

Teaching

University of California, Davis

Instructor

- 2022 Adventures in Data Science (with Carl Stahmer and Pamela Reynolds), Winter
 2021 Adventures in Data Science (with Carl Stahmer and Pamela Reynolds), Winter

Workshops and Instructional Support

- 2022 Natural Language Processing with Python (three part series), May
 Getting Started with Textual Data (three part series), February
 Introduction to Version Control with Git, February
- 2021 Introduction to the Unix Command Line, November
 Reproducible Research for Teams with GitHub, May
 Introduction to the Unix Command Line, February
 Introduction to Version Control with Git, February
- 2020 Introduction to Version Control with Git, December
 Course Liaison, Topics in Applied Data Science (with Vladimir Filkov), Fall

University of California, Santa Barbara

Teaching Associate (Instructor of Record)

- 2019 American Literature from 1900 to Present: Disjunction and Collage, Summer
- 2017 Introduction to Literary Study, Summer
- Media and Information Culture: Mediating Text (with Jeremy Douglass), Spring
- 2016 Introduction to Literary Study, Summer

Teaching Assistant

- 2020 Dystopian Fiction, Spring
- Public Speaking, Winter
- 2019 Proseminar: Scholarships, Fellowships, and Grants Applications Workshop, Fall
- Introduction to Literature and the Culture of Information, Spring
- Introduction to Literary Study, Winter
- 2018 Detective Fiction, Fall
- 2016 Introduction to Literature and the Culture of Information, Spring
- Detective Fiction, Winter
- 2015 Introduction to Literary Study, Fall

Workshops

- 2017 3D Printing and/as Type Design, November

Research Assistantships

- 2018–2019 Multi-Scriptworlds and the Visual Imagination, supervised by Sowon S. Park
 - Coordinated a trip to the Getty Research Institute, where undergraduate students examined materials from the Institute’s concrete poetry collection. Taught seminars preparing students for the trip and organized an exhibition of students’ creative responses to their visit. These responses were displayed during the Scriptworlds conference (held at the University of California, Santa Barbara in May 2019).
- 2018–2019 *The Catalyst*, supervised by Brian Donnelly
 - Supervised the creation of three issues of an undergraduate literary arts magazine and taught the magazine’s associated Interdisciplinary Writing course.
- 2016–2017 Transcriptions Center, supervised by Jeremy Douglass
 - Organized visits by speakers and cross-campus reading groups, gave workshops on 3D printing, co-taught an upper division undergraduate seminar (“Mediating Text”), and provided instructional support for English courses.
- 2016–2017 Machine Reading and Writing, supervised by Rita Raley
 - Produced an annotated bibliography summarizing critical discourses about chatbots for a course on “Machine Reading and Writing”; further work included reviews of experimental literature and background research on Russian Futurism and Dada.

Professional Service

Reviews

- 2021– *Digital Humanities Quarterly*

2021– Association for Computers and the Humanities, annual conference

Program Committees

2021– Natural Language Processing for Digital Humanities Workshop, The International
Conference on Natural Language Processing

References

Alan Liu, Distinguished Professor, Department of English, University of California, Santa
Barbara, ayliu@ucsb.edu

Rita Raley, Associate Professor, Department of English, University of California, Santa Barbara,
ritaraley@protonmail.com

Carl Stahmer, Executive Director, DataLab, University of California, Davis,
cstahmer@ucdavis.edu

Wolf Kittler, Professor, Department of Germanic and Slavic Studies, University of California,
Santa Barbara, kittler@gss.ucsb.edu

Garrett Stewart, James O. Freedman Professor of Letters, Department of English, University of
Iowa, garrett-stewart@uiowa.edu