

## Employment

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

## Education

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

- Dissertation: “Literalism: Reading Machines Reading,” directed by Alan Liu and Rita Raley (co-chairs), Jeremy Douglass, Wolf Kittler

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

2013 B.A. English, 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](https://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](https://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 of *Eavesdropping: A Reader*, eds. James Parker and Joel Stern, *Journal of Sonic Studies* (January 2021). <https://www.researchcatalogue.net/view/558982/1115318>

“A Font of Fonts,” with Fred Benenson, *The Future of Text: A 2020 Vision*, ed. Frode Hegland (November 2020). <https://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](https://lareviewofbooks.org/article/the-unfamiliar)

### Digital Projects

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

- 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 developing web interfaces for computational text analysis, constructing ballad metadata in accordance with linked open data standards, testing methods for machine vision processes, project management, grant writing, ballad transcription, cataloguing, and training and supervising research assistants.

**Website:** [ebba.english.ucsb.edu](http://ebba.english.ucsb.edu)

Technical Lead (Social Media Analysis), Disease BioPortal, 2021

- BioPortal tracks disease outbreaks in livestock, providing geo-tagged data of epidemiological sampling to academic researchers, veterinarians, and farmers. As part of a DataLab startup program (short collaborations that pilot new directions for projects), I extended BioPortal’s data collection and modeling to social media, using text classification methods to determine whether a given social media post is about a past, ongoing, or yet-to-be-identified outbreak event.

**Website:** [bioportal.ucdavis.edu](http://bioportal.ucdavis.edu)

Technical Lead (Web Development and Visualization), wateReview, 2020–2021

- wateReview is a corpus exploration platform for a data-driven literature review about water management in the Caribbean and South and Central America, titled “Bright and Blind Spots of Water Research in Latin America and the Caribbean.” I designed the site’s interactive visualizations, which include a multi-faceted topic model viewer, network graphs, and several chord diagrams.

**Website:** [datalab-dev.github.io/wateReview\\_web\\_app](https://datalab-dev.github.io/wateReview_web_app) (temporary web domain)

Research Assistant, The Maker Lab, 2017–2020

- 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 Albion printing press, fabricated type for printing workshops, replicated seventeenth-century printing tools, and held trainings for faculty and graduate students.

**Website:** [emc.english.ucsb.edu/maker-lab](http://emc.english.ucsb.edu/maker-lab)

Research Assistant, WhatEvery1Says, 2017–2020

- WhatEvery1Says studies public discourse about the humanities, using topic modeling to analyze a corpus comprised of several hundred thousand news articles. My individual contributions to the project include corpus design, data preparation experiments, optimizing topic models for human readability, and developing outlets for research dissemination.

**Website:** [wels.ucsb.edu](http://wels.ucsb.edu)

## Awards, Grants, and Honors

Regents Fellowship, University of California, Santa Barbara, 2017–2018; 2014–2015

Multicampus Graduate Working Group Grant for “Cal DH,” University of California Humanities Research Institute, 2017–2018

The William and Marjorie Frost Award for Scholarly Writing for “Fugue States,” Department of English, University of California, Santa Barbara, 2017

## Presentations

“Type After the Code Point,” Before and Beyond Typography conference, Stanford University, June 2020 [rescheduled due to COVID-19]

“Plaintext Scrim,” Annual conference, Modern Language Association, Seattle, January 9, 2020

“Script Hacks and Visual Spoofs,” Creative Multilingualism conference: “Scriptworlds,” University of California, Santa Barbara, May 31, 2019

“The Edge of Sense,” International conference, Society for Textual Scholarship, The New School, New York City, March 21, 2019

“The Error that Catches the Eye,” Annual conference, Modern Language Association, Chicago, January 5, 2019

“Scanbed Poetics,” Annual conference, Electronic Literature Organization, Université du Québec à Montréal, August 14, 2018

“Font Futures,” Wireframe Studio symposium: “Future Tripping,” University of California, Santa Barbara, April 24, 2018

“Wordless Labor,” Annual conference, Modern Language Association, New York City, January 6, 2018

“Linotypes and Linotext Minima,” Cal DH work session, University of California, Los Angeles, November 2, 2017

“Fugue States,” Annual conference, American Comparative Literature Association, Universiteit Utrecht, July 6–9, 2017

## Digital Arts Practice

“notyetdef,” with Fred Benenson, October 2019

- 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](http://tylershoemaker.info/research/notyetdef)

## Teaching

### University of California, Davis

#### *Instructor*

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

#### *Workshops and Instructional Support*

“Reproducible Research for Teams with GitHub,” DataLab, May 28, 2021

“Introduction to Version Control with Git” (with Carl Stahmer), DataLab, February 24, 2021

“Introduction to the Command Line,” DataLab, February 10, 2021

“Introduction to Version Control with Git” (with Carl Stahmer), DataLab, December 11, 2020

Course Liaison, Topics in Applied Data Science for Computer Scientists, Fall 2020

### University of California, Santa Barbara

#### *Teaching Associate (Instructor of Record)*

American Literature from 1900 to Present: Disjunction and Collage, Summer 2019

Introduction to Literary Study: The Art of Reading, Summer 2017

Media and Information Culture: Mediating Text (with Jeremy Douglass), Spring 2017

Introduction to Literary Study: Boredom and the Everyday, Summer 2016

#### *Teaching Assistant*

Dystopian Fiction, Spring 2020

Public Speaking, Winter 2020

Proseminar: Scholarships, Fellowships, and Grants Applications Workshop, Fall 2019

Literature and the Information, Media, and Communications Revolutions, Spring 2019

Introduction to Literary Study, Winter 2019

Detective Fiction, Fall 2018

Literature and the Information, Media, and Communications Revolutions, Spring 2016

Detective Fiction, Winter 2016

Introduction to Literary Study, Fall 2015

#### *Workshops, University of California*

“3D Printing and/as Type Design,” The Maker Lab, November 17, 2017

## Research Assistantships

Multi-Scriptworlds and the Visual Imagination, supervised by Sowon S. Park, 2018–2019

- 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).

*The Catalyst*, supervised by Brian Donnelly, 2018–2019

- Supervised the creation of three issues of an undergraduate literary arts magazine and taught the magazine’s associated Interdisciplinary Writing course.

Transcriptions Center, supervised by Jeremy Douglass, 2016–2017

- 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.

Machine Reading and Writing, supervised by Rita Raley, 2016–2017

- 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.

## Reviews

Association for Computers and the Humanities

*Digital Humanities Quarterly*

## 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