Christian Brickhouse

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Professional Experience

PhD Candidate *Aug 2017 – June 2024, Stanford Linguistics*

- Published multiple packages in Python and R. Wrote HTML, CSS, and JavaScript for experiments
- Implemented a modified JPEG compression algorithm to study acoustic variation in vowels (white paper)
- Conducted over 100 oral history interviews across rural California (project overview)
- Migrated code-base to Python 3 and packaged for PyPI distribution in 6 months during COVID (Upstream PR)

Laboratory Coordinator *Sep 2020 – Aug 2021, Stanford Linguistics*

- Drove development of a data management plan for largest corpus of spoken California English
- Responded to user needs by leading workshops on R, Python, regular expressions, and lab equipment
- Improved knowledge transfer to successor by producing comprehensive documentation

Technical Director, Risley Theatre *Jan 2014 - May 2017, Ithaca, NY*

- Increased productivity by improving software defaults based on a study of real-world user configurations
- Communicated with diverse stakeholders to develop roadmaps for technical needs of over 30 tenants
- Developed and executed a 3-year capital improvement plan

Community service

Wikimedia Foundation since 2016

- Elected by users to roles granting access to private information hidden from most staff (white paper)
- Own 3 Python and 1 JavaScript components supporting editorial workflows (list of task approvals)
- Selected to present to the Inter-American Commission on Human Rights regarding potential legislation

MediaWiki since 2020

- Improved Wikipedia Block appeals by coordinating production deployment of new software (tracking ticket)
- Own software component for interactive chess content on Wikipedia (user documentation)

Mechanics' Institute Library and Chess Room since 2021

- Provided interview about the chess club featured in the *San Francisco Chronicle*
- Provide information on the Institute at the annual Scholastic Chess Championship

Technical skills

Languages: Python, R, PHP, JavaScript, HTML/CSS, Bash, SQL
Frameworks and libraries: NumPy, Pandas, TidyR, jQuery, Django
Technologies and tools: Git, GNUMake, RStudio, PostgreSQL
Testing: PyTest, Jenkins, Jest, Grunt

Education

Stanford University, 2024
Master of Arts in Linguistics
Awards:
  Visiting Future Faculty Fellow (SUNY Buffalo, 2023)
  Diversifying Academia and Recruiting Excellence Fellow (Stanford, 2022)
  Wikipedia Fellow (Linguistic Society of America, 2018)

Cornell University, 2017
Bachelor of Arts, summa cum laude in Linguistics and Anthropology
Awards:
  Mellon-Mays Undergraduate Fellow (Cornell, 2016)
  Best Technical Report, Concrete Canoe (American Society of Civil Engineers, 2014)