Edwin Ko

New Haven, CT | eddersko@gmail.com | eddersko.com | linkedin.com/in/eddersko | github.com/eddersko

Summary

- Ph.D. in Linguistics with expertise in user-centric research and mixed methods to generate insights and test hypotheses (see eddersko.com for projects, presentations, and publications)
- Proficient in R (e.g. tidyverse), Python (e.g. pandas), survey tools (e.g. Qualtrics), among others (see Skills)
- Extensive experience leading research teams to create, annotate, and analyze low-resource language data
- Passionate about designing research that informs intuitive and inclusive user experiences
- Open to relocation

Work Experience

Research Scientist / Lecturer, Yale University – New Haven, CT   2023 – Present

- Designed and taught courses in ethnography, statistics, and data science at the undergraduate and graduate level
- Led a team of 5 undergraduate research assistants to conduct linguistic fieldwork and ethnography on the Crow Indian Reservation in Montana to collect and analyze language and other behavioral data, resulting in a paper directly informing transcription of recorded narratives
- Secured a major National Endowment for the Humanities grant ($448,551) to conduct linguistic fieldwork and ethnography on the Omaha language spoken on the Omaha Reservation in Nebraska

Doctoral Researcher, Linguistics, UC Berkeley – Berkeley, CA   2017 – 2023

- Designed a global survey in Qualtrics (100+ participants) with 1:1 in-depth virtual interviews, analyzing attitudinal and behavioral data using mixed methods (e.g. PCA, ordinal logistic regression, thematic analysis), leading to insights in users' attitudes, beliefs, and practices vis-à-vis textual documents in language revitalization
- Performed usability testing during language revitalization camps of Northern Pomo as users engaged in tasks and follow-up in-depth interviews to diagnose and resolve pain points in using the *Northern Pomo Language Tools* website (https://northernpomolanguagetools.com/)
- Trained 20 undergraduate research assistants in team-based research, annotation schemes, and data analysis, defining research goals and roadmap, and evaluating progress at weekly syncs
- Conducted in-depth interviews with native speakers of low-resource languages (Crow, Aleut) over 7 years to study grammatical properties of these languages, resulting in 5 publications and 9 presentations
- Constructed a database of 700+ linguistic features from in-depth interviews, archival materials, and manuscripts across 18 low-resource languages for Bayesian analysis, leading to a paper and 4 presentations

Language Data Researcher, Linguistics, Georgetown University – Washington, DC   2014 – 2016

- Applied NLP techniques and geospatial analysis to extract, visualize, and understand data from large language corpora of World Englishes, culminating in a Master's thesis, academic conference presentation, and publication

Skills

Programming: R; Python; SQL; C; C++; Java; LaTeX; HTML/CSS/JavaScript; PHP; Bash; git

Data & Analysis: Survey design and analysis; Interviewing and participant observation; Hypothesis testing; Linear and logistic (mixed-effects) regression; Clustering methods; Dimensionality reduction; Data visualization; Acoustic and grammatical analysis; Discourse and conversation analysis; Thematic analysis

Languages: *Native*: English, Cantonese; *Advanced*: French, Mandarin, Japanese, American Sign Language

Education

University of California, Berkeley, Ph.D. in Linguistics   2017 – 2023
Georgetown University, M.S. in Linguistics   2014 – 2016
Boston University, B.A. in Linguistics   2009 – 2014