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EDUCATION

- 2019 – present **PhD (candidate) in linguistics** **University of California, Berkeley**
Dissertation (in progress): Methods in low-resource revitalization: A Nomlaki grammar and Wintu deep learning AI TTS model, using from-scratch and pre-trained methods
Qualifying examination: low-resource deep-learning AI text-to-speech strategies, Wintuan linguistics, and prosodic typology with oral exam and literature review
- 2021 **MA in linguistics** **University of California, Berkeley**
Thesis: Nomlaki Vowel Quality and Duration: An Archival Examination. Statistical and computational analysis of human annotated Nomlaki dataset
- 2015-2019 **BA, linguistics and Chinese** **University of Florida**
Thesis: Perceptual Bias In Lexical Tone Perception. Statistical and computational analysis of Chinese Mandarin lab-collected dataset

EXPERIENCE

- 2020 – present **Linguistic consultant** **Paskenta Band of Nomlaki Indians**
Analyze all aspects of indigenous Californian languages Nomlaki and Wintu including phonetics, phonology, morpho-syntax, pragmatics, and Californian linguistic typology from archival materials (text & audio) and literature review • Create curriculum for and teach weekly 2-hour (Nomlaki)/bimonthly 1.5-hour (Wintu) language revitalization classes for tribal members • Communicate linguistic topics for tribal learners at varying levels of experience and linguistic knowledge • Work with tribal members/leadership to access/share Nomlaki/Wintu knowledge appropriately
- 2022 – present **Linguistic consultant** **Toyun-Wintu Center (Wintu Tribe of Northern California)**
See above
- 2024-present **Senior Data Science Fellow** **UC Berkeley D-Lab**
Teach multi-hour workshops (more per year as Senior Fellow) on beginning and intermediate programming, data wrangling, and data visualization for Python and R, as well as Python (Keras) AI deep learning. • Provide technical and quantitative support for social science researchers across various subfields, stages of research, and degrees of technical background
- 2023-2024 **Data Science Fellow** **UC Berkeley D-Lab**
See above
- 2023 **Data Science for Social Justice Fellow** **UC Berkeley D-Lab**
Conducted linguistic analysis on Reddit web data to uncover and suggest socially conscious solutions to hate speech/bias in language acquisition using NLP strategies such as bag-of-words, TF-IDF, sentiment analysis, and word embedding analysis.
- 2022 **Graduate Student Researcher** **California Language Archive (CLA)**
Organized and catalogued archival documents from various native Californian languages and researchers for public reference • Connected visiting Californian tribal groups to relevant diverse linguistic material. Shared linguistic expertise in interpreting archival materials and reclaiming their often culturally biased contents for indigenous use. • Contributed various elements of the current CLA website, including site favicon and webpage layout (CSS)

NATURAL LANGUAGES

English - native
Swedish - heritage/proficient
Mandarin - conversational/literate
Nomlaki, Wintu (indigenous) - working knowledge

COMPUTATIONAL LANGUAGES

Python
R
Praat script

SKILLS

Praat
Fieldworks Language Explorer (FLEX)