

ANNA BJÖRKLUND

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EXPERIENCE

- 2025 – present **Linguist II, on assignment @ Meta** **Tundra Technical Solutions**
Build datasets & conduct experiments to evaluate product/integrity performance for Meta Ray-Ban Smart Glasses across all non-US English locales • Use SQL & Python to develop manual and automated methods to analyze, improve, & support ML performance across all stages of product development • Create & assess red-teaming datasets to identify and improve voice assistant pain points • Communicate model trends to diverse stakeholders, including engineers, annotators, & project managers • Leverage linguistic & cultural knowledge to shape high-quality datasets & guidelines for model expansion into new languages & regions
- 2020 – present **Tribal linguist** **Paskenta Band of Nomlaki Indians/Wintu Tribe of Northern California**
Analyze all linguistic aspects of Nomlaki & Wintu from archival materials (text/audio) • Leverage linguistic analysis to design & teach regular language revitalization classes • Identify gaps in linguistic knowledge/materials & collaborate with diverse tribal stakeholders to develop solutions • Clearly communicate linguistic topics to learners with varying experiences & backgrounds • Work with tribal leadership to identify best research practices
- 2023 – 2025 **Senior Data Science Fellow/Data Science Fellow** **UC Berkeley D-Lab**
Designed & led workshops for deep learning (vanilla NNs/CNNs) with Keras, machine learning (scikit-learn), data wrangling & visualization (Python/R), web scraping, & web APIs • Provide technical & quantitative support for cross-functional social science researchers
- 2023 **Data Science for Social Justice Fellow** **UC Berkeley D-Lab**
Conducted NLP analysis (e.g. bag-of-words, TF-IDF, sentiment analysis, word embedding) on Reddit (r/languagelearning) data. Found significant user association between non-native speech accent & negative sentiment; recommended community guidelines centering comprehension over nativism to subreddit moderators
- 2022 **Graduate Student Researcher** **California Language Archive (CLA)**
Organized and catalogued archival documents across native Californian languages for public reference • Connected visiting Californian tribal groups to relevant diverse linguistic material; worked with tribal groups to interpret archival materials and reclaim them for indigenous use

EDUCATION

- 2025 **PhD, Linguistics** **University of California, Berkeley**
Dissertation: A Grammar of Nomlaki. Description & analysis of Nomlaki phonetics, phonology, morphology, & syntax, using archival sources.
- 2021 **MA, Linguistics** **University of California, Berkeley**
Thesis: Nomlaki Vowel Quality and Duration: An Archival Examination. Collected, transcribed, and aligned archival Nomlaki data. Designed and conducted statistical and computational analysis (k-means clustering, LDA, etc) using scikit-learn, rstatix, etc.
- 2015 – 2019 **BA, Linguistics; BA, Chinese** **University of Florida**
Thesis: Perceptual Bias In Lexical Tone Perception. Collected, designed and conducted statistical and computational analysis of Chinese Mandarin experimental data using SPSS.

LINGUISTIC & RESEARCH SKILLS

- Dataset building & data analysis
- Experimental design
- Hypothesis testing
- Speech transcription & annotation
- Statistical & text analysis

COMPUTATIONAL LANGUAGES

- Python, R, regex
- SQL
- Keras
- Praat, ELAN

NATURAL LANGUAGES

English: native
Chinese Mandarin: HSK 8
Swedish: heritage
Japanese/Spanish: intermediate
French/Portuguese: reading