

# Amos Teo

Linguist. Language Nerd. Data Analyst.

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## EDUCATION

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### University of Oregon

2013-2019

#### *PhD in Linguistics*

- Dissertation: "Investigating differential case marking in Sümi using language documentation & experimental methods"
- Funded by the National Science Foundation (DEL-DDRIG 1723519); UO Doctoral Research Fellowship.
- Modeled speakers' choice of case marker based on tagged semantic and pragmatic features. Skills used: corpus tagging; experimental design for speech perception; random forest/recursive partitioning; linear mixed effects models; data visualization; qualitative analysis.

### University of Melbourne

2008-2010

#### *MA in Linguistics*

- Thesis (published): "A phonological and phonetic description of Sumi, a Tibeto-Burman language of Nagaland"
- Skills used: fieldwork; compilation of spoken word corpus; analysis of acoustic characteristics of speech, focusing on lexical tone; data visualization.

## EXPERIENCE & TRAINING

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### Evolution of the verb *evo/ve* among Pokémon Go players

2018-present

- Big data analysis of Pokémon Go subreddits to study changing use of transitive verb *evo/ve*.
- Used nltk library in Python to tokenize data, create concordances.
- Will show distribution of "result-oriented" *evo/ve* with final-stage evolutions; Results to appear on blog.

### Linguistic clustering analysis for quantifying differences between languages

2015-2017

- Developed a corpus-based method for measuring cross-linguistic typological distances in terms of case marking.
- Used cluster analysis and dimensionality reduction techniques.
- Applied method to parallel texts in 30 Tibeto-Burman languages.
- Presented results at the 12<sup>th</sup> Association of Linguistic Typology meeting (Dec 2017).

### Spoken Sümi corpus creation (Nagaland, India)

2010-2018

- Recorded 11 hours of speech: 7 hours manually transcribed in Sümi orthography and translated into English.
- Managed small team of language workers in India; Provided feedback on transcription and translation.
- Funded by Endangered Languages Documentation Programme (ELDP) and National Science Foundation.
- Data transcriptions and translations available online at Endangered Language Archive (ELAR).

### Yolmo/Syuba lexical tone production & perception (Nepal)

2014-2015

- Designed experiments to study tone production and perception in two under-studied language varieties.
- Analyzed acoustic data with linear mixed effects models.
- Visualized interaction between lexical tone and intonation.
- Presented results at special "Tone and Intonation" session at 18<sup>th</sup> Int'l Congress of Phonetic Sciences (Aug 2015).

## SKILLS

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### Technical skills and software:

- Data collection and annotation: Praat, EMU Speech Database System (acoustic phonetic analysis); ELAN Annotator (transcription & translation); Toolbox, FLEx (lexical database & morphological parsing); PsychoPy (experiments).
- Statistical analysis: R (e.g. tidy, dplyr, lme4); Python (e.g. numpy, pandas).
- Data visualization: R (ggplot2, gmap); Python (matplotlib).

### Natural language competencies:

- **English** (N. American & Singapore): native
- **Mandarin**: excellent reading/written/spoken/listening
- **French**: excellent reading/written/spoken/listening
- **Russian**: good reading/written; basic spoken
- **Nepali**: basic reading/written/spoken/listening
- **Assamese**: basic reading/written/spoken/listening

## ENGAGEMENT & KNOWLEDGE SHARING

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- Talk: "How to construct a language" (3 May 2019) at FLIS Day for high school students. With Charlotte Vaughn.
- UO Linguistics blog posts: [Linguistics in pop culture: Arrival \(film\)](#), [Linguistics in the news – Election season](#).
- Personal blog posts: [Futureless languages?](#), [Issues with Ice Age linguistics](#).