

# Sean Simpson

Computational Sociolinguist

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## Programming

Python  
R  
SQL  
Bash  
HTML5  
CSS3  
LaTeX

## ML Tools

TensorFlow  
Keras  
Scikit-Learn  
SciPy  
NumPy  
Pandas  
Caret

## NLP Tools

SpaCy  
OpenNLP  
Stanford CoreNLP  
Gensim  
NLTK  
TextmineR  
Tm

## EDUCATION

2019	<b>Doctorate</b> of Philosophy Computational Linguistics	Georgetown University
2016	<b>Master</b> of Science Sociolinguistics	Georgetown University
2013	<b>Master</b> of Arts Language Documentation & Conservation	University of Hawaii at Manoa
2011	<b>Bachelor</b> of Arts Linguistics, Anthropology	University of Florida

## Work Experience

2019 - Now	<b>Google</b> <i>Analytical Linguist, Human Evaluation &amp; Signals</i> Data analysis, experimental design, human computation research, and survey statistics for the Human Evaluation & Signals team in the Ads org.	Los Angeles, CA
2018 (Aug-Nov)	<b>Google</b> <i>Analytical Linguist Intern, Ads Human Eval</i> Developed machine learning models to predict inter-rater reliability and task completion time for new survey templates designed by the Ads Human Evaluation team. Developed an internal R package to aid in the extraction of structural, semantic, and lexical features from survey templates.	Los Angeles, CA
2018 (May-Aug)	<b>International Monetary Fund (IMF)</b> <i>Projects Officer, Innovation Lab Unit</i> Provided consultation and development expertise on a number of issues related to Natural Language Processing and Machine Learning. Primarily focused on designing and implementing a system to predict financial crises based on natural language features extracted from news corpora.	Washington, DC
2016 - 2017	<b>Center for Advanced Study of Language (CASL)</b> <i>NLP Research Specialist</i> Designed and implemented a system to detect newly emerging drug terminology in streaming Twitter corpora in conjunction with experts from the Center for Substance Abuse Research.	College Park, MD

# PUBLICATIONS

## Peer-Reviewed Journal Articles

- 2019 Huang, Chengyu, Sean Simpson, Daria Ulybina, and Augustin Roitman. News-based Sentiment Indicators. *IMF Working Papers*, 273(19). 1–29
- 2018 Simpson, S. Sean, Nikki Adams, M. Claudia Brugman, and J. Thomas Connors. Detecting Novel and Emerging Drug Terms Using Natural Language Processing: A Social Media Corpus Study. *Journal of Medical Internet Research: Public Health and Surveillance*, 4(1). e2
- 2016 Kirtley, Joelle, Katie Drager, James Grama, and Sean Simpson. An acoustic analysis of the vowels of Hawai'i English. *Journal of the International Phonetic Association*, 46(1). 79–97
- 2013 Drager, Katie, Joelle Kirtley, James Grama, and Sean Simpson. Language variation and change in Hawai'i English: KIT , DRESS , and TRAP. *University of Pennsylvania Working Papers in Linguistics*, 19(2). 40–50
- 2013 Simpson, Sean. The Endangered Languages Project: A digital tool for research and engagement. *Katoba to Shakai (Language and Society)*, 15. 135–154

## Peer-Reviewed Conference Presentations

- 2017 Simpson, Sean. Reconstructing Thread Structure For Reddit Comments. Poster presented at *Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL)*. Washington, DC
- 2016 Simpson, Sean. Keeping up with Cait: A longitudinal analysis of F0 and [s] in the speech of Caitlyn Jenner. Poster presented at *New Ways of Analyzing Variation (NWAV) 45*. Vancouver, BC
- 2014 Drager, Katie, Sean Simpson, James Grama, and Joelle Kirtley. Variation and change in the back vowels of Hawai'i English. Paper presented at *New Ways of Analyzing Variation (NWAV) 43*. Chicago, IL
- 2014 Simpson, Sean. Phonetic cues to Localness in Hawai'i English: Feature clusters influencing perception. Paper presented at *New Ways of Analyzing Variation (NWAV) 43*. Chicago, IL
- 2014 Simpson, Sean. The Endangered Languages Project: Overview and assessment. Paper presented at *The LSA Annual Meeting*. Minneapolis, MN
- 2013 Campbelle, Lyle, Nala Lee, Eve Okura, Sean Simpson, and Kaori Ueki. New knowledge: Findings from the Catalogue of Endangered Languages. Paper presented at *The 3rd International Conference on Language Documentation and Conservation (ICLDC)*. Honolulu, HI
- 2013 Simpson, Sean. Practical applications of the Endangered Languages Project. Paper presented at *The 3rd International Conference on Language Documentation and Conservation (ICLDC)*. Honolulu, HI

- 2013 Simpson, Sean. Preliminary results: Phonetic variation and perceived Localness in Hawai'i. Paper presented at *The 17th Annual Graduate Student Conference of Languages, Linguistics and Literature*. Honolulu, HI
- 2012 Grama, James, Joelle Kirtley, Katie Drager, Sean Simpson, and Rebecca Clifford. Language variation and change in Hawai'i English: KIT, DRESS and TRAP in motion. Paper presented at *New Ways of Analyzing Variation (NWA) 41*. Bloomington, IN

## Book Chapters

- 2018 Belew, Anna and Sean Simpson. Language extinction then and now. In Campbell, Lyle and Anna Belew (eds.). *Cataloguing the Endangered Languages of the World*. Abingdon: Taylor and Francis
- 2018 Belew, Anna and Sean Simpson. The status of the world's endangered languages. In Campbell, Lyle and Kenneth Rehg (eds.). *The Oxford Handbook of Endangered Languages*. Oxford: Oxford University Press
- 2018 Heaton, Raina and Sean Simpson. How ELCat serves communities whose languages are at risk. In Campbell, Lyle, John Van Way, and Anna Belew (eds.). *Cataloguing the Endangered Languages of the World*. Abingdon: Taylor and Francis

## Teaching Experience

2018, spring	<b>Teaching Assistant</b> LING/COSC-572: Empirical Methods in NLP	Georgetown University
2017, fall	<b>Teaching Assistant</b> LING-367: Computational Corpus Linguistics	Georgetown University
2017, spring	<b>Teaching Assistant</b> LING-469: Analyzing Language Data with R	Georgetown University
2016, fall	<b>Teaching Assistant</b> LING-481: Sociolinguistic Variation	Georgetown University
2015, fall	<b>Instructor</b> LING-001: Introduction to Language	Georgetown University
2015, spring	<b>Instructor</b> LING-001: Introduction to Language	Georgetown University
2014, fall	<b>Instructor</b> LING-001: Introduction to Language	Georgetown University