Curriculum vitae

Emily Grabowski

Last updated 1/20/23

EDUCATION

2023	(expected) **PhD in Linguistics and Graduate Certificate in Applied Data Science**. University of California, Berkeley. Dissertation: Acoustic phonetic features: current practices and future directions Committee: Keith Johnson, Gasper Begus, Hannah Sande, Gopala Anumchapalli
2021	**MA in Linguistics**. University of California, Berkeley.
2018	**A.B. *cum laude* in Linguistics and Mathematical Data Science**. Dartmouth College, Hanover, NH. Honors Thesis (High Honors): Voice Quality and Tone in Santo Domingo Albarradas Zapotec Advisors: James Stanford and Laura McPherson

PUBLICATIONS

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in prep	Comparing k-means and OPTICS clustering algorithms for identifying vowel categories. with Jennifer Kuo.
under review	Methodological trends in acoustic phonetic analysis.
2019	DAPPr: A (semi)-automated tool for pitch annotation. with Laura McPherson. Proceedings of the International Congress of Phonetic Sciences 2019. Melbourne, Australia.

CONFERENCE PRESENTATIONS

2023	Comparing k-means and OPTICS clustering algorithms for

identifying vowel categories. Emily Grabowski and Jennifer Kuo. Talk presented at the LSA Annual Meeting, Denver, Colorado, USA.

2022 Differential effects of pitch on perceived duration in linguistic and auditory tasks. Emily Grabowski, Poster presented at the 182nd meeting of the Acoustical Society of America, Denver, Colorado, USA.

2019 Effects of pitch height and contour on duration perception.. Emily Grabowski, Poster presented at the 178th meeting of the Acoustical Society of America, San Diego, California, USA.

2018 ATLAS (Automated Tone Level Annotation System): A tonologist's toolkit. Emily Grabowski and Laura McPherson. Talk presented at the Sixth International Symposium on Tonal Aspects of Languages. Berlin, Germany.

2017 Tone sandhi in Teochew: new phonetic data from overseas speakers. Emily Grabowski. Talk presented at the 2nd International Symposium on Chinese Applied and Theoretical Linguistics. Milan, Italy.

2017 Automated tone level annotation in the documentation of New Caledonian tone. Laura McPherson and Emily Grabowski. Talk presented at the 9th International Austronesian and Papuan Languages and Linguistics Conference. Paris, France.

2017 A semi-automated workflow for producing time-aligned intermediate tonal representations. Laura McPherson and Emily Grabowski. Talk presented at the 5th International Conference on Language Documentation and Conservation. Honolulu, HI, USA.

INVITED TALKS

2022 Guest Instructor, Undergraduate computer science course, numerical representations of text, Lewis & Clark College.

2022 Guest instructor, Computational Training in Social Science Program, deep learning module, UC Berkeley.

2019	Effect of pitch on duration perception. Presentation at UW Phonetics Lab.

TEACHING EXPERIENCE

2019-present	Lead instructor, Social Sciences D-Lab, UC Berkeley. Python Workshops Taught: Fundamentals (12 hrs), Data Wrangling and Data Visualization (6 hrs), Machine Learning (6 hrs), Deep Learning (6 hrs), Introduction in Neural Nets (3 hrs), Text Analysis (12 hrs) R Workshops Taught: Fundamentals (12 hrs), Deep Learning (6 hrs). Curriculum Developer for: Python Fundamentals, Python Machine Learning, Python Data Wrangling and Visualization.
2022	Instructor, Workshop in Data Science and Social Justice (6-week summer workshop for graduate students), UC Berkeley.
2020	Teaching assistant, Bay Area Summer Institute in Computational Social Science. (2-week summer school)
2016	Teaching assistant, Introduction to Linguistics, Dartmouth College.

RESEARCH EXPERIENCE

2022	Data Analyst, FLOSS Project, UC Berkeley. Qualitative program survey assessment and visualization.
2020-2021	Research Assistant, ChangLab, UCSF. Stimuli design and data analysis for clinical study of neuroscience of speech perception.
2018-2019	Developer, DAPPr: Dartmouth tool for Analysis of Pitch and Prosody. Software for descriptive analysis of pitch.

2017	Summer research assistant, Yale University. Advisor: Jason Shaw. Data analysis for Electromagnetic Articulagraphy (EMA).

SKILLS AND RELEVANT COURSEWORK

Statistics/ML	Experience with both theoretical and applied statistics/ machine learning, including neural networks. Coursework: machine learning (Python), multivariate probability (R) linear models (R), social network analysis (MATLAB), computational text analysis (Python).
Data Science	Experience with selecting and applying best practices in data cleaning and model selection. Coursework: Research design, methods in data science (Python).
Python	Significant general experience with Python for programming, automation, and data analysis. Pandas, sklearn/tslearn, Keras/Tensorflow, Parselmouth, Librosa.
R	Significant experience in using R for statistical and modeling scripts. Linear and mixed-effect models.
MATLAB	Basic familiarity with MATLAB, particularly in refactoring scripts for generalizability.

FELLOWSHIPS AND AWARDS

2023	Dissertation Completion Fellowship, UC Berkeley.
2022	Acoustical Society of America School 2022, Denver Colorado, USA.
2022	Travel Grant, Biological and Environmental Data Education Network Meeting, Montreal, Canada.
2022	Travel Grant, AudioXD workshop, Pittsburgh, Pennsylvania, USA.

2019-2022	National Science Foundation Graduate Research Fellowship.
2018	Academic Achievement Award in Linguistics, Dartmouth College
2017-2018	Stamps Charitable Foundation Scholar Experiential Learning Grant. Project: Tone sandhi in Teochew
2017	Neukom Institute Prize for Outstanding Undergraduate Research in Computational Science, First Place
2017	Honors thesis and leave-term research grants from the Leslie Embs Bradford 1977 and Charles C Bradford Fund for Undergraduate Research, Dartmouth College.
2017	Office of Undergraduate Advising and Research Conference Travel Award, Dartmouth College.
2016-2017	Neukom Foundation Scholar and James O. Freedman Presidential Scholar Project: Computational tool for the analysis of tone (ATLAS).
2016	Center for the Advanced Study of Language (CASL) Summer Language Science Scholar (University of Maryland). Project: Designing methods to crowdsource data for online language map. Advised by Tess Wood.

MENTORSHIP

2022	Lead Mentor for New Workshop Instructors, D-Lab, UC Berkeley.
2019-2020	Language Research Apprentice Program, UC Berkeley. Project: Effect of f0 on perceived duration of tone
2019-2020	Data Science Discovery Project partner, UC Berkeley. Project: Exploring automatic phonetic transcription

SERVICE

2022-2023	Coordinator, Phonetics lab reading group, UC Berkeley.
2019-2020	Organizer, Phorum speaker series at UC Berkeley
2019	Organizing committee, Berkeley Linguistics Society Workshop