Emily P. Ahn

eahn@uw.edu   emilyahn.github.io

RESEARCH INTERESTS	Corpus Phonetics, Forced Alignment, Code-Switching, Phonology, Typology, Multilingual NLP & Speech technology, Language Variation

EDUCATION

University of Washington
Ph.D. Candidate, Computational Linguistics   *Expected 2025*

Carnegie Mellon University
M.S., Language Technologies Institute   *2019*

Wellesley College
B.A., Cognitive & Linguistic Sciences, Cum Laude   *2016*

AWARDS

UW Excellence in Linguistic Research Graduate Fellowship   *2023*
NSF Graduate Research Fellowship   *2017 - 2021*

RESEARCH

Amazon Care AI, Amazon Inc.
Applied Science Intern   *Summer 2022*
Manager: Jangwon Kim

Linguistics Department, University of Washington
Graduate Research Assistant   *2020*
Advisor: Gina-Anne Levow

Language Technologies Institute, Carnegie Mellon University
Graduate Research Assistant   *2017 - 2019*
Advisors: Yulia Tsvetkov & Alan W. Black

S.T.A.R. Lab, SRI International
Research Assistant   *2016 - 2017*
Mentors: Colleen Richey, Wen Wang, Dimitra Vergyri

Computer Science Department, Wellesley College
Senior Thesis Student   *2015 - 2016*
Advisor: Sravana Reddy

Institute for Creative Technologies, University of Southern California
NSF REU Intern   *Summer 2015*
Advisor: Andrew Gordon

Media Lab, Massachusetts Institute of Technology
Undergraduate Research Assistant   *Spring 2015*
Supervisor: Mitchel Resnick

PUBLICATIONS

E. P. Ahn, E. Chodroff, M. Lapierre and G-A. Levow
The Use of Phone Categories and Cross-Language Modeling for Phone Alignment of Panãra
INTERSPEECH 2024. PDF (POSTER)

F. Samir, **E. P. Ahn**, S. Prakasah, M. Soskuthy, V. Shwartz and J. Zhu
Efficiently Identifying Low-Quality Language Subsets in Multilingual Datasets: A Case Study on a Large-Scale Multilingual Audio Dataset
Transactions of the Association for Compuational Linguistics. *(Accepted.)*

E. Chodroff, **E. P. Ahn** and H. Dolatian
Comparing Language-specific and Cross-language Acoustic Models for Low-resource Phonetic Forced Alignment
Language Documentation & Conservation. *(Accepted.)*

M. Oganyan, G-A. Levow, R. Squizzero, **E. P. Ahn**, S. Ng, E. Deaton and R. Wright
Investigating the Acoustic Fidelity of Vowels across Remote Recording Methods
Linguistics Vanguard, vol. 10, no. 1, 2024. PDF

E. P. Ahn, G-A. Levow, R. Wright and E. Chodroff
An Outlier Analysis of Vowel Formants from a Corpus Phonetics Pipeline
INTERSPEECH 2023. PDF (POSTER)

E. P. Ahn and E. Chodroff
VoxCommunis: A Corpus for Cross-linguistic Phonetic Analysis
Conference on Language Resources and Evaluation (LREC) 2022. PDF (POSTER)

G-A. Levow, **E. P. Ahn** and E. M. Bender
Developing a Shared Task for Speech Processing on Endangered Languages
Workshop on Computational Methods for Endangered Languages 2021. PDF

T. Parekh, **E. P. Ahn**, Y. Tsvetkov and A. W. Black
Understanding Linguistic Accommodation in Code-Switched Human-Machine Dialogues
Conference on Computational Natural Language Learning (CoNLL) 2020. PDF

E. Ahn, C. Jimenez, Y. Tsvetkov and A. W. Black
What Code-Switching Strategies are Effective in Dialogue Systems?
Society for Computation in Linguistics (SCiL) 2020. PDF

L. Breitfeller, **E. Ahn**, D. Jurgens, and Y. Tsvetkov
Finding Microaggressions in the Wild: A Case for Locating Elusive Phenomena in Social Media Posts
EMNLP 2019. PDF

E. Ahn, F. Morbini, and A. Gordon
Improving Fluency in Narrative Text Generation with Grammatical Transformations and Probabilistic Parsing
International Natural Language Generation Conference (INLG) 2016. PDF

INVITED   **Investigating the Corpus Phonetics Pipeline applied to Diverse Language Data**   *2024*

Talk at Columbia NLP Seminar.

Data Collection, Bias, and Ethical Concerns in Speech Processing *2022*
E. P. Ahn, G. Anumanchipalli, S. Sakti and O. Scharenborg
Panel at Speech for Social Good Workshop, INTERSPEECH. Virtual. (VIDEO)

Phonetic Forced Alignment with the Montreal Forced Aligner *2022*
Tutorial at University of Potsdam, Linguistics. Virtual.

PRESENTATIONS   **Phonetic Granularity Effects on Forced Alignment** *2024*
Across Panãra and English
E. P. Ahn, E. Chodroff, M. Lapierre and G-A. Levow
Computational Methods in the Study of Endangered Languages Workshop
EACL. Malta. (Talk) (Abstract)

Investigating the Acoustic Fidelity of Remote Recording Methods *2022*
E. P. Ahn, W. Bowers, E. Deaton, G-A. Levow, S. Ng, M. Oganyan,
R. Squizzero and R. A. Wright
Acoustical Society of America (ASA). Denver, CO. (Poster) (ABSTRACT)

Predicting Continuous Vowel Spaces in the Wilderness *2019*
E. P. Ahn and D. R. Mortensen
TyP-NLP: The Workshop on Typology for Polyglot NLP
ACL. Florence, Italy. (POSTER) (ABSTRACT)

Understanding Code-Mixed Dialogues in Context *2018*
NASSLLI Summer School Student Session
Carnegie Mellon University. Pittsburgh, PA. (Poster)

Two Types of Foreign Accent Classification *2016*
Workshop for Young Female Researchers in Speech Science & Technology
INTERSPEECH. San Francisco, CA. (Poster)

Foreign Accent Classification *2016*
Great Lakes Expo for Experimental and Formal Undergraduate Linguistics
Michigan State University. East Lansing, MI. (Talk)

Fluency Transformations in Storytelling *2015*
Research Experiences for Undergraduates Symposium
NSF. Arlington, VA. (Poster)

TEACHING   **Linguistics Department, University of Washington**
Co-Instructor, Basics for Computational Linguistics   *Summer 2023*
Teaching Assistant, Swearing and Taboo Languages (Laura McGarrity)   *Spring 2022*
Teaching Assistant, Phonology I (Myriam Lapierre)   *Winter 2022*
– *Guest Lecture*: Phoneme Inventories
Teaching Assistant, Introduction to Morphology (Sharon Hargus)   *Winter 2022*
Teaching Assistant, Language and Society (Betsy Evans)   *Fall 2021*
Teaching Assistant, Introduction to Linguistics (Laura McGarrity)   *Fall 2019*

Language Technologies Institute, Carnegie Mellon University
Teaching Assistant, Colloquium (Yulia Tsvetkov)   *2018 - 2019*

NASSLLI Summer School, Carnegie Mellon University
Teaching Assistant, Corpus Linguistics (Na-Rae Han)   *Summer 2018*

Cognitive & Linguistic Sciences, Wellesley College
Teaching Assistant, Introduction to Linguistics (Angela Carpenter)   *2015 - 2016*
Teaching Assistant, Sounds of Language (Angela Carpenter)   *Spring 2016*

Girls Who Code (Intel), Stanford University
Teaching Assistant, Introductory Computer Science   *Summer 2014*

SERVICE

Reviewer
Association for Computational Linguistics Rolling Review   *2024*
International Workshop on Spoken Dialogue Systems Technology   *2023 - 2024*
Workshop on Computational Typology and Multilingual NLP   *2020 - 2021*
Transactions on Asian and Low-Resource Language Information Processing   *2020*
Northwest Linguistics Conference   *2020*

Officer, Linguistics Society at the University of Washington
President   *2021 - 2022*
Community Development Chair   *2020 - 2021*

Student Volunteer
Conference on Empirical Methods in Natural Language Processing (EMNLP)   *2020*
Annual meeting of the Association for Computational Linguistics (ACL)   *2020*

Mentor
Carnegie Mellon University AI Undergraduate Research   *2018 - 2019*

MEMBERSHIP

Linguistic Society of America (LSA)   *2020 - Present*
Association for Computational Linguistics (ACL)   *2018 - Present*

SKILLS

Human Languages
English (native), Korean (heritage), Spanish & Mandarin (working),
Russian & Arabic (beginner)

Computer Languages & Tools
Python & UNIX (fluent); Java (working); JavaScript, HTML/CSS & R (basic);
Scikit-Learn (fluent), Praat & Kaldi (working), PyTorch (basic)

Last Updated: 31 January 2025