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|-----------------------|--|-----------------------------------|
| RESEARCH<br>INTERESTS | Corpus Phonetics, Phonology, Multilingual NLP & Speech technology, Typology,<br>Language Variation, Forced Alignment   |                                   |
| EDUCATION             | <b>University of Washington</b><br>Ph.D. Candidate, Computational Linguistics  | <i>2019 - Present</i>             |
|                       | <b>Carnegie Mellon University</b><br>M.S., Language Technologies Institute   | <i>2017 - 2019</i>                |
|                       | <b>Wellesley College</b><br>B.A., Cognitive & Linguistic Sciences, Cum Laude   | <i>2012 - 2016</i>                |
| AWARDS                | <b>UW Excellence in Linguistic Research Graduate Fellowship</b><br><b>NSF Graduate Research Fellowship</b>   | <i>2023</i><br><i>2017 - 2021</i> |
| RESEARCH              | <b>Amazon Care AI, Amazon Inc.</b><br><i>Applied Science Intern</i><br>Manager: Jangwon Kim  | <i>Summer 2022</i>                |
|                       | <b>Linguistics Department, University of Washington</b><br><i>Graduate Research Assistant</i><br>Advisor: Gina-Anne Levow  | <i>2020</i>                       |
|                       | <b>Language Technologies Institute, Carnegie Mellon University</b><br><i>Graduate Research Assistant</i><br>Advisors: Yulia Tsvetkov & Alan W. Black   | <i>2017 - 2019</i>                |
|                       | <b>S.T.A.R. Lab, SRI International</b><br><i>Research Assistant</i><br>Mentors: Colleen Richey, Wen Wang, Dimitra Vergyri  | <i>2016 - 2017</i>                |
|                       | <b>Computer Science Department, Wellesley College</b><br><i>Senior Thesis Student</i><br>Advisor: Sravana Reddy  | <i>2015 - 2016</i>                |
|                       | <b>Institute for Creative Technologies, University of Southern California</b><br><i>NSF REU Intern</i><br>Advisor: Andrew Gordon   | <i>Summer 2015</i>                |
|                       | <b>Media Lab, Massachusetts Institute of Technology</b><br><i>Undergraduate Research Assistant</i><br>Supervisor: Mitchel Resnick  | <i>Spring 2015</i>                |
| PUBLICATIONS          | M. Oganyan, G-A. Levow, R. Squizzero, <b>E. P. Ahn</b> , S. Ng, E. Deaton and R. Wright<br><b>Investigating the Acoustic Fidelity of Vowels across Remote<br/>Recording Methods</b><br><i>In review.</i> |                                   |

**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 Across Panāra and English**      *2024*  
**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**

|                                    |             |
|------------------------------------|-------------|
| <i>President</i>                   | 2021 - 2022 |
| <i>Community Development Chair</i> | 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 |
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| 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: 20 March 2024