

Anna Seo Gyeong Choi

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Research interests

AI Ethics, Algorithmic Fairness, Speech/Signal Processing, Clinical Speech Biomarker

Education

- 2021.08 – **Cornell University**
2026.05 Ph.D. in Information Science
(Expected) M.Sc. in Information Science (2021 – 2024)
Committee: Allison Koenecke (Chair), Matthew Wilkens, Marten van Schijndel
- 2019.03 – **Seoul National University**
2021.08 M.A. in English Language and Literature
Thesis: *Analysis of Lexical Stress of Korean-accented English and Spanish-accented English for Accent Classification*
Committee: Minhwa Chung (Chair), Sunhee Kim, Yongwon Lee
- 2015.03 – **Seoul National University**
2019.02 B.A. in Hispanic Language and Literature, *cum laude*
B.A. in English Language and Literature, *cum laude*

Experience

- 2025.09 – **Kotoba Technologies**
present *External Collaborator*
Full stack Korean speech-to-text model development and iterative improvements of synthetic data generation
- 2025.05 – **Rev AI**
present *Speech Science Intern*
Working with Verbatim/Non-verbatim/Legal mode specialized speech-to-text models for speech dysfluencies
- 2024.09 – **University of Pennsylvania**
2025.08 *Visiting Scholar* (Remote)
Working with Linguistic Data Consortium & UPenn Hospital on clinical projects, including autism-, schizophrenia-, and neurodegeneration-related projects
- 2024.06 – **NAVER Cloud**
2024.08 *Summer Intern*
Worked with Speech-to-Text teams (NSpeech, NEST) on Kaldi & PyTorch based modeling of foreign-accented speech

Working papers

In Preparation	ClinSpeech: A Holistic Benchmark for evaluating ASR Fairness in Clinical Conversations Anna Seo Gyeong Choi, Oresis Papakyriakopoulos, Allison Koenecke, & Alessandro Fabris
Under Review	PEEC: The Protected Entities Ethics Checklist for Collecting Speech Data from Vulnerable Clinical Populations Anna Seo Gyeong Choi, Sunghye Cho, & Iris Nowenstein
Under Review	Pitfalls of Auditing Practices in Automatic Speech Recognition Technologies: A Case Study of People with Aphasia Katelyn X. Mei*, Anna Seo Gyeong Choi*, Hilke Schellmann, Mona Sloane, & Allison Koenecke (* equal contribution)
In Submission	SpeechSpectrum: A Framework for User-Controlled Speech-to-Text Representation Along the Linguistic Fidelity Spectrum Anna Seo Gyeong Choi*, Maria Teleki*, Miguel del Rio Fernandez, James Caverlee & Allison Koenecke (* equal contribution)

Publications

All conference proceedings are peer-reviewed with full paper

2025 (To appear)	Analyzing Dialectical Biases in LLMs for Knowledge and Reasoning Benchmarks Eileen Pan, Anna Seo Gyeong Choi, Maartje Ter Hoeve, Skyler Seto, & Allison Koenecke <i>Proceedings of Empirical Methods in Natural Language Processing (EMNLP) Findings</i>
2025 (To appear)	Fairness of Automatic Speech Recognition: Looking Through a Philosophical Lens Anna Seo Gyeong Choi & Hoon Choi <i>Proceedings of AAAI/ACM Conference on AI, Ethics, and Society (AIES)</i>
2025	Comparative Evaluation of Acoustic Feature Extraction Tools for Clinical Speech Analysis Anna Seo Gyeong Choi, Alex Richardson, Ryan Partlan, Sunny X. Tang†, & Sunghye Cho† († equal contribution) <i>Proceedings of Interspeech</i>
2025	Reasoning-Based Approach with Chain-of-Thought for Alzheimer’s Detection Using Speech and Large Language Models Chanwoo Park, Anna Seo Gyeong Choi, Sunghye Cho, & Chanwoo Kim <i>Proceedings of Interspeech</i>

- 2025 **Data-Driven Mispronunciation Pattern Discovery for Robust Speech Recognition**
Anna Seo Gyeong Choi*, Jonghyeon Park*, & Myungwoo Oh (* equal contribution)
Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP)
- 2024 **Quantification of Automatic Speech Recognition System Performance on d/Deaf and Hard of Hearing Speech**
 Robin Zhao*, **Anna Seo Gyeong Choi***, Allison Koenecke†, & Anais Rameau† (*, † equal contribution)
The Laryngoscope
- 2024 **Careless Whisper: Speech-to-Text Hallucination Harms**
 Allison Koenecke, **Anna Seo Gyeong Choi***, Katelyn X. Mei*, Hilke Schellmann†, & Mona Sloane† (*, † equal contribution)
Proceedings of ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT)
- 2024 **KoFREN: Comprehensive Korean Word Frequency Norms Derived from Large Scale Free Speech Corpora**
 Jinseo Kim, **Anna Seo Gyeong Choi**, & Sunghye Cho
Proceedings of Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING)
- 2024 **Crosslinguistic Acoustic Feature-based Dementia Classification using Advanced Learning Architectures**
Anna Seo Gyeong Choi, Jinseo Kim, Seo-hee Kim., Minseok Baek & Sunghye Cho
Proceedings of Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING) Workshop on Resources and Processing of Linguistic, Para-linguistic and Extra-linguistic Data from People with Various Forms of Cognitive/Psychiatric/Developmental Impairments (RaPID-5)
- 2023 **Augmented Datasheets for Speech Datasets and Ethical Decision-Making**
 Orestis Papakyriakopoulos*, **Anna Seo Gyeong Choi***, William Thong, Dora Zhao, Jerome Andrews, Rebecca Bourke, Alice Xiang†, & Allison Koenecke† (*, † equal contribution)
Proceedings of ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT)
- 2020 **Building Korean Conversational Speech Data in Emergency Medical Domain**
 Kim, Sunhee., Jooyeong Lee, **Seo Gyeong Choi**, Seunghun Ji, Jeemin Kang, Jongin Kim, et al.
Phonetics and Speech Sciences, 12 (4)

Non-Archival Presentations

- Jul 2025 **Pitfalls of Auditing Practices in Automatic Speech Recognition Technologies: A Case Study of People with Aphasia (Oral)**
11th International Conference on Computational Social Science (IC2S2 '25)
- Jul 2023 **Auditing Korean Speech Datasets for Dialectal Fairness in Speech-to-Text Applications (Poster)**
9th International Conference on Computational Social Science (IC2S2 '23)

- Jul 2023 **Auditing Korean Speech Datasets for Dialectal Fairness in Speech-to-Text Applications** (Poster)
9th International Conference on Computational Social Science (IC2S2 '23)
- Jul 2023 **Augmented Datasheets for Speech Datasets and Ethical Decision-Making** (Poster)
9th International Conference on Computational Social Science (IC2S2 '23)
- Apr 2022 **Phoneme-to-phoneme (P2P) lexicon expansion technology for Brazilian Portuguese** (Poster)
Mid-Atlantic Student Colloquium on Speech, Language and Learning (MASC-SLL 2022)
- Nov 2020 **Building Korean Conversational Speech Data in Emergency Medical Domain** (Oral)
Korean Conference on Speech Sciences
- Oct 2019 **Stereotypical dialects in Zootopia and its implications** (Oral)
Coalition of English Departments in Asia

Awards

- 2025 Cornell Center for Social Science Qualitative and Interpretive Research Institute Small Research Grant (Cornell University)
- 2023 Microsoft Azure Cloud Computing Grant (Cornell University)
- 2022 Cornell Center for Social Science Grant (Cornell University)
- 2021 Sage Fellowship (Cornell University)
- 2019 - 2020 Graduate Student Instructor Scholarship (Seoul Nat'l Univ.)
- 2017 - 2019 CORE Undergraduate Scholarship (Seoul Nat'l Univ.)
- 2017 CORE Exchange Students Scholarship (Seoul Nat'l Univ.)
- 2015 Scholarship for Academic Excellence (Seoul Nat'l Univ.)

Teaching experience

- Cornell Univ. **LING 1101: Introduction to Linguistics, SPAN 1210: Elementary Spanish I, INFO 2950: Introduction to Data Science**
- Seoul Nat'l Univ. **Graduate Seminar on Applied Linguistics, Graduate Course on English Phonology, English Phonetics, English and Society**