JINGYI CHEN

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EDUCATION

The Ohio State University *2019-2025(expected)*
PhD in Computational Linguistics
Advisor: Dr. Micha Elsner

The Ohio State University *2022-2024(expected)*
MS in Computer Science & Engineering
Advisor: Dr. Andrew Perrault

Sichuan International Studies University *2015-2019*
BA in English Language and Literature

PROJECTS

Optimizing Speech Model Using Advanced RL techniques May 2023 - Present

· Exploring and designing efficient reinforcement learning techniques for better speech model alignment.

Neural discovery of abstract inflectional structure Jan 2023 - Present

· Train a transformer model to handle feature-guided character-level transduction with Reinforcement Learning.
· NSF-BCS-2217554; Principal Investigator: Dr. Micha Elsner and Dr. Andrea Sims.

Explore How GANs Learn Phonological Representations Jan 2021 -Jan 2022

· Trained two Convolutional Neural Networks models on English words and French words in an unsupervised manner.
· Visualized and interpreted the intermediate layers of CNNs to explore what linguistics representations are learned from raw speech data by CNNs and how nasalization acoustic features are encoded in different layers of CNNs.
· Accepted by ACL 2023 (Area Chair Awards).

PUBLICATIONS

Jingyi, Chen, Micha Elsner. 2023. Exploring How Generative Adversarial Networks Learn Phonological Representations. *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*

Jingyi, Chen. 2022. Alignment Contrast in Huiyang Hakka Falling Tone. *The 96th Annual Meeting of the Linguistic Society of America.*

PRESENTATION

Jingyi, Chen. 2022. Explore How Generative Adversarial Networks Learn Phonological Representation. *The 27th Annual Mid-Continental Phonetics Phonology Conference.*

Jingyi, Chen. 2022. Alignment Contrast in Huiyang Hakka Falling Tones. *The 96th Annual Meeting of the Linguistic Society of America.*

Jingyi, Chen. 2021. Tonal Alignment Contrast in Huiyang Hakka Falling Tones. *The 25th Annual Mid-Continental Phonetics Phonology Conference.*

TEACHING EXPERIENCE

Introduction to Linguistics   Aug 2020 - Aug 2022

· Primary duties: course preparation, classroom instruction, online instruction, grading, consulting with student
· Teaching content: IPA transcription; Speech Sound Annotation; Phonological Analysis; Morphological Analysis; Syntactic and Semantic Analysis; Pragmatic Analysis

ACTIVITIES

Graduate Association of Chinese Linguistics (GACL), Secretary   2020-2022
Department of East Asian Languages and Literatures, The Ohio State University
Summer Linguistic Institute for Youth Scholars (SLIYS), Language Consultant   2021
Buckeye East Asian Linguistics Forum 4 (BEALF-4), Organizing Committee   2020-2021
The 5th Workshop on Innovations in Cantonese Linguistics (WICL-5), Organizing Committee   2019-2020

FELLOWSHIPS AND AWARDS

ACL 2023 Area Chair Awards (Linguistic Theories, Cognitive Modeling, and Psycholinguistics)   2023
The Center for Cognitive and Brain Sciences Summer Graduate Research Award   2022
Ilse Lehiste Memorial Fund Graduate Research Award   2021-2022
The Ohio State University Fellowship   2019-2020

TECHNICAL SKILLS

Programming Languages   Python, Java, C, R, Praat, SQL
Deep Learning Frameworks   PyTorch, Pandas