

Jingyi Chen

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EDUCATION

The Ohio State University	2019 - 2025
PhD student in Computational Linguistics	GPA: 3.956/4
The Ohio State University	2022 - 2024
Master student in Computer Science and Engineering	GPA: 3.868/4
Sichuan International Studies University	2015 - 2019
BA in English Language and Literature	GPA: 3.66/4

RESEARCH EXPERIENCE

Optimizing Speech Model Using Advanced RL techniques 2023-present

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

Neural discovery of abstract inflectional structure 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 2021-2022

- Accepted by ACL 2023 (Area Chair Awards)
- Train two Convolutional Neural Networks models on English words and French words in an unsupervised manner
- Visualize and interpret 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

PAPERS

Conference paper

Jingyi Chen and Micha Elsner. “Exploring How Generative Adversarial Networks Learn Phonological Representations”, In *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 3115–3129, Toronto, Canada. Association for Computational Linguistics.

PRESENTATION

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

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

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

TEACHING EXPERIENCE

AU2020 to AU2022, LING 2000 Introduction to Linguistics, Ohio State University

- Worked as instructor
- 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

Department of East Asian Languages and Literatures, The Ohio State University

Graduate Association of Chinese Linguistics (GACL), Secretary 2020-2022

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) July 2023

The Center for Cognitive and Brain Sciences Summer Graduate Research Award March 2022

Ilse Lehiste Memorial Fund Graduate Research Award 2021-2022

The Ohio State University Fellowship 2019-2020

LANGUAGES

Mandarin, Hakka Chinese (native), Cantonese Chinese (fluent), English (fluent), Japanese (beginner), Sanskrit (basic reading)

COMPUTER SKILLS

Languages: Main: Python **Experienced:** Java, C, R, Praat **Tools:** AI: SQL, TensorFlow, PyTorch **Data Analysis:** pandas