MINGYUE HUO   霍明月   /mɪŋɥœ xuɔ/

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EDUCATION

PhD, University of Illinois Urbana-Champaign　　　　May. 2022 – 2026 (expected), IL, USA
Linguistics (GPA: 4.0/4.0)
Advisor: Dr. Yan Tang
Research: speech intelligibility, text-to-speech, speech source separation, natural language processing

MA, University of Illinois Urbana-Champaign　　　　Aug. 2020 – May. 2022, IL, USA
East Asian Languages and Cultures (GPA: 4.0/4.0)

Exchange, Hosei University　　　　Aug. 2018 – Jan. 2019, Tokyo, Japan

BA, Shanghai International Studies University　　　　Aug. 2016 – July 2020, Shanghai, China
Japanese, International Economics and Trade (GPA: 3.85/4.0)

PUBLICATIONS

Release from Same-talker Speech-on-speech Masking: More Effects than Masker's Intelligibility
Mingyue Huo, Yinglun Sun, Dan fogerty, Yan Tang
Submitted to Journal of the Acoustical Society of America

Quantifying Informational Masking due to Masker Intelligibility in Same-talker Speech-in-speech Perception
Mingyue Huo, Yinglun Sun, Dan fogerty, Yan Tang
INTERSPEECH 2023　PDF

Towards Automating the Assessment of Teachers' Teaching Emotions in Preschool Classrooms
Mingyue Huo, Yan Tang
20th International Congress of Phonetic Sciences (ICPhS) 2023　PDF

PRESENTATIONS

Constructing a Phonetically-Balanced Low-Predictable Speech Corpus for Mandarin Chinese
28th Midcontinental Phonetics and Phonology Conference (MidPhon28)
October 2023, Purdue University

Using Praat Scripts for Data Processing and Annotation
Phonetics and Phonology Lab Workshop
April 2022, UIUC

WORKING EXPERIENCE

Linguist Intern at ByteDance (TikTok) AI-Lab　　　　Shanghai, China
Japanese Text-to-Speech　　　　*December 2019 – July 2021*

- Designed annotation pipelines, G2P rules, and test set for Japanese Text-to-Speech AI models
- Produced Python scripts for data collection, text normalization, audio segmentation, and file management
- Provided feedback on AI models using Mean Opinion Score, A/B test with linguistic knowledge

Singing Synthesis
- Recorded Mandarin, English and Japanese singing and speech data in professional studios

- Designed language-music annotation guidelines to improve Singing Synthesis AI models
- Researched on expressive speech synthesis, prosody control, AI-assisted language testing applications

Research Assistant at UIUC

English Placement Test (EPT)   *May 2022 – present*

- Researched on writing assessment rubric
- Assisted in writing exam proctoring, grading, and content development

Oral English Assessment Interview (OEAI)   *May 2023 – present*

- Interviewed international students on TA-orientated English oral proficiency
- Researched on interview strategy, rating rubric, and rater's training process
- Assisted in scheduling interviews, reporting scores, archiving and analyzing speech data

Phonetics and Phonology Lab Assistant at UIUC

August 2022 – May 2023

- Managed audio-metric booth equipment and lab use
- Organized workshops on speech-related software and lab tours

AWARDS

Conference Travel Award – Department of Linguistics, UIUC	November 2023
Best Japanese TA – Department of East Asian Languages and Cultures, UIUC	May 2022
Graduate Summer Research Fellowship – Department of East Asian Languages and Cultures, UIUC	May 2021
Teachers Ranked as Excellent by Their Students – UIUC	2020 Fall, 2021 Fall

TEACHING ASSISTANT EXPERIENCE

LING402 Tools and Tech Speech and Language Processing	2022 FA
LING406 Introduction to Computational Linguistics	2023 SP
LING446 Fundamentals for Speech Signal Processing and Analysis	2023 SP, 2024 SP
JAPN201 Elementary Japanese I	2020 FA, 2021 FA
JAPN202 Elementary Japanese II	2021 SP, 2022 SP

COMMUNITY SERVICE

Co-chair at Illinois Language And Linguistics Society 16 (ILLS16)	March 2024
Student Volunteer at NeurIPS 2023	December 2023
Reviewer at Illinois Language And Linguistics Society 15 (ILLS15)	March 2022
Student Volunteer at INTERSPEECH 2021	August 2021

SKILLS

Language: Mandarin(Native), English(Advanced), Japanese(Advanced N1), Cantonese (beginner)

Software: Praat, Audacity, Adobe Audition, Adobe Premiere, Montreal Forced Aligner

Programming: Python, MATLAB, Shell, R, LaTeX

Framework & Library: PyTorch, HTK, Kaldi, NumPy, SciPy, Torchauido, librosa, soundfile, Matplotlib

Highlighted Coursework

Phonetics (A+), Phonology (A), Syntax (A+), Acoustic Phonetics (A), Speech Processing and Analysis (A), Psychoacoustics (A), Machine Learning (A), Natural Language Processing (A), Linear Algebra (A), Calculus (A), Formal Semantics (A+), Statistics and Probability (A), Prosody of East Asian Languages (A+), Audio Computing Lab (A+), Digital Signal Processing (A+)

Last Updated on Jan.24 2024