Chi-Chang Lee

Curriculum Vitae

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Education

Feb. 2020 – Jan. 2022 **M.Sc. in Artificial Intelligence offered by the Department of Computer Science and Information Engineering**,
GPA: 4.22/4.3, National Taiwan University, Taipei, Taiwan.

Sep. 2015 – Jun. 2019 **B.Sc. in Engineering Science and Ocean Engineering**,
GPA: 3.73/4.3, National Taiwan University, Taipei, Taiwan.

Research Experiences

Mar. 2024 – present **Research Assistant**, Human-centered Intelligent System Laboratory, National Yang Ming Chiao Tung University, supervised by Yi-Ting Chen.

Jul. 2023 – present **Research Collaborator**, Improbable AI Laboratory, USA, Massachusetts Institute of Technology, supervised by Pulkit Agrawal.

Mar. 2019 – Mar. 2024 **Research Assistant**, Biomedical Acoustic Signal Processing Laboratory, Academia Sinica CITI, Taipei, supervised by Yu.Tsao.

Nov. 2022 – Feb. 2023 **Visiting Researcher**, Yamagishi Laboratory, National Institute of Informatics, Japan, supervised by Junichi Yamagishi.

Research Interests

- **Deep Reinforcement Learning**
- **Autonomous Vehicle**
- **Robot Learning**
- **Auxiliary Task Learning**
- **Robust Automatic Speech Recognition**

Honors & Awards

- 2019 IC/CAD Contest Problem E Second Place

Selected Publications in Sensorimotor Learning

- **Chi-Chang Lee***, Zhang-Wei Hong*, Pulkit Agrawal, "Harnessing Heuristics for Deep Reinforcement Learning via Constrained Optimization," Submitted to NeurIPS 2024, currently scored as 'Weak Accept', 'Accept', and 'Accept' (* indicates equal contribution)

- Srinath Mahankali*, **Chi-Chang Lee***, Gabriel B. Margolis, Zhang-Wei Hong, Pulkit Agrawal, "Maximizing Quadruped Velocity by Minimizing Energy," in *ICRA 2024*. (* indicates equal contribution)
- **Chi-Chang Lee**, Yu Tsao, Hsin-Min Wang, and Chu-Song Chen, "D4AM: A General Denoising Framework for Downstream Acoustic Models," in *ICLR 2023*

Publications in Audio Applications

- **Chi-Chang Lee**, Hong-Wei Chen, Chu-Song Chen, Hsin-Min Wang, Tsung-Te Liu, Yu Tsao, "LC4SV: A Denoising Framework Learning to Compensate for Unseen Speaker Verification Models," in *ASRU 2023*
- **Chi-Chang Lee**, Cheng-Hung Hu, Yu-Chen Lin, Chu-Song Chen, Hsin-Min Wang, and Yu Tsao, "NASTAR: Noise Adaptive Speech Enhancement with Target-Conditional Resampling," in *Interspeech 2022*
- **Chi-Chang Lee**, Yu-Chen Lin, Hsuan-Tien Lin, Hsin-Min Wang, and Yu Tsao, "SERIL: Noise Adaptive Speech Enhancement using Regularization-based Incremental Learning," in *Interspeech 2020*
- Chi-Lun Lin, Kate Ching-Ju Lin, **Chi-Chang Lee**, and Yu Tsao, "Cross-Technology Interference Mitigation Using Fully Convolutional Denoising Autoencoders," in *GLOBECOM 2020*
- **Chi-Chang Lee**, Jian-Jiun Ding, "Automatic Chinese Handwriting Verification Algorithm Using Deep Neural Networks," in *ISPACS 2019*

Teaching Experiences

Fall 2021 **Teaching Assistant**, Machine Learning,
National Taiwan University, Taipei, Taiwan.

Fall 2018 **Teaching Assistant**, Time Frequency Analysis and Wavelet Transforms,
National Taiwan University, Taipei, Taiwan.