Xiangming Gu, Ph.D. Candidate

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https://guxm2021.github.io

in https://www.linkedin.com/in/xiangming-gu/



Education

2021 – now Ph.D. Candidate, National University of Singapore in School of Computing and Integrative Sciences and Engineering Programme.

Supervisor: A.P. Ye Wang, GPA: 4.80/5.0.

B.E. & B.S. Degree, Tsinghua University in Electronic Engineering and Finance. Supervisor: A.P. Jiansheng Chen, GPA: 3.80/4.0.

2020 – 2020 **Exchange, National Univeristy of Singapore** in Electrical and Computer Engineering. Supervisor: A.P. Cheng Xiang, GPA: 4.88/5.0

Research Publications

Conference Proceedings

- Gu, X., Ou, L., Ong, D., & Wang, Y. (2022). MM-ALT: A Multimodal Automatic Lyric Transcription System. In ACM International Conference on Multimedia (MM), Lisbon, Portugal. (Oral, Top Paper Award).
- Huang, H., **Gu, X.**, Wang, H., Xiao, C., Liu, H., & Wang, Y. (2022). Extrapolative Continuous-time Bayesian Neural Network For Fast Training-free Test-time Adaptation. In *Advances in Neural Information Processing systems* (*NeurIPS*), New Orleans, United States.
- Ou, L., Gu, X., & Wang, Y. (2022). Transfer Learning of Wav2vec 2.0 for Automatic Lyric Transcription. In International Society for Music Information Retrieval Conference (ISMIR), Bengaluru, India.

Journal Articles

- Wei, W., Huang, H., Gu, X., Wang, H., & Wang, Y. (2022). Unsupervised Mismatch Localization in Cross-Modal Sequential Data with Application to Mispronunciations Localization. *Transactions on Machine Learning Research (TMLR)*.
- Xue, Y., Chen, J., **Gu**, **X.**, Ma, H., & Ma, H. (2022). Boosting Monocular 3D Human Pose Estimation with Part Aware Attention. *IEEE Transactions on Image Processing (TIP)*, 31, 4278–4291.
- Zhang, B., Yang, P., **Gu**, **X.**, & Liao, H. (2021). Laser Endoscopic Manipulator Using Spring-Reinforced Multi-DoF Soft Actuator. *IEEE Robotics and Automation Letters* (*RA-L*), 6(4), 7736–7743.

Technical Report

Gu, X., & Xiang, C. (2020). Distilling a deep neural network into a Takagi-Sugeno-Kang fuzzy inference system.

Skills

Coding Python, Matlab, Shell, C/C++, HTML, Verilog, Assembly language, Langu

Skills (continued)

Libraries PyTorch, Tensorflow, ...

Miscellaneous Experience

Academic Reviewers

Conferences AISTATS 2021.

Journals RA-L.

Awards and Scholarships

2022 Research Achievement Award, National University of Singapore.

MM'22 Top Paper Award, Association for Computing Machinery.

MM'22 Student Travel Grant, Association for Computing Machinery.

2021 **President's Graduate Fellowship**, National University of Singapore.

2020 **Visiting Undergraduate Student Scholarship**, Tsinghua University.

Zheng Geru Scholarship, Tsinghua University.

Teaching Assistants

2023 Spring CS5242. Neural Networks and Deep Learning.

2022 Fall CS3244. Machine Learning.

2022 Spring CS4243. Computer Vision and Pattern Recognition.