Xiangming Gu, Ph.D. Student

y @gu_xiangming

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

Languages Strong reading, writing and speaking competencies for English, Mandarin Chinese.

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

Skills (continued)

Libraries PyTorch, Tensorflow, ...

Miscellaneous Experience

Academic Reviewers

Conferences AISTATS 2021.

Journals RA-L.

Awards and Scholarships

2023 Research Achievement Award, National University of Singapore.

2022 ACM MM'22 Top Paper Award, Association for Computing Machinery.

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

ISEP Graduate Scholarship, 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.