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.
2017 – 2021	🔖 **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

1 **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**).

2 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.

3 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

1 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**)*.

2 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.

3 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

1 **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, LaTeX, …

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.

2021   ▌ **ISEP Graduate Scholarship**, National University of Singapore.

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

2018   ▌ **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.