

Xiangming Gu, Ph.D. Student

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Education

- 2021 – now 📖 **Ph.D. Student, National University of Singapore** in School of Computing and Integrative Sciences and Engineering Programme.
Supervisor: A.P. Ye Wang, GPA: 4.75/5.0.
- 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 University 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. (2023). Unsupervised Mismatch Localization in Cross-Modal Sequential Data. *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 , ...
- Libraries 📖 PyTorch, Tensorflow, ...

Miscellaneous Experience




Academic Reviewers

Conferences  AISTATS 2021.
Journals  RA-L.

Awards and Scholarships

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.