Xiangming Gu

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EDUCATION

National University of Singapore — Singapore
PhD student, Integrative Sciences and Engineering Programme, supervisor: A.P. Wang Ye — *Aug. 2021 – June 2025*

Tsinghua University — Beijing, China
B.E. degree of Electronic Engineering, GPA: 3.80/4.0 — *Aug. 2017 – June 2021*

Tsinghua University — Beijing, China
B.S. degree of Finance — *Aug. 2018 – June 2021*

National University of Singapore — Singapore
Exchange student of Electrical and Computer Engineering, GPA: 4.875/5.0 — *Jan. 2020 – May 2020*

PUBLICATIONS

Xiangming Gu*, Longshen Ou*, Danielle Ong, Ye Wang. MM-ALT: A Multimodal Automatic Lyric Transcription System. *ACM International Conference on Multimedia* (**ACM-MM**), 2022. (**Oral**)

Longshen Ou*, **Xiangming Gu***, Ye Wang. Towards Transfer Learning of wav2vec 2.0 for Automatic Lyric Transcription. *International Society for Music Information Retrieval Conference* (**ISMIR**), 2022.

Youze Xue, Jiansheng Chen, **Xiangming Gu**, Huimin Ma, Hongbing Ma. Boosting Monocular 3D Human Pose Estimation with Part Aware Attention. *IEEE Transactions on Image Processing* (**TIP**), 2022. (**Impact factor: 11.041**)

Boyu Zhang, Penghui Yang, **Xiangming Gu**, Hongen Liao. Laser Endoscopic Manipulator Using Spring-reinforced Multi-DoF Soft Actuator. *IEEE/RSJ International Conference on Intelligent Robots and Systems* (**IROS**), 2021. Also in *IEEE Robotics and Automation Letter* (**RA-L**), 2021. (**Impact factor: 4.321**)

PREPRINTS

Wei Wei, Hengguan Huang, **Xiangming Gu**, Hao Wang, Ye Wang. Unsupervised Mismatch Localization in Cross-Modal Sequential Data. *arXiv preprint arXiv:2205.02670*, 2022.

Xiangming Gu, Xiang Cheng. Distilling a Deep Neural Network into a Takagi-Sugeno-Kang Fuzzy Inference System. *arXiv preprint arXiv:2010.04974v1*, 2020.

AWARDS

ISEP graduate Scholarship, National University of Singapore, 2021
Visiting Undergraduate Student Scholarship, 2020
Zheng Geru Scholarship, Tsinghua University, 2018

SERVICES

Reviewer: International Conference on Artificial Intelligence and Statistics(AISTATS), IEEE Robotics and Automation Letter(RA-L)

TEACHING

Teaching Assistant — National University of Singapore
CS4243: Computer Vision and Pattern Recognition — *Spring 2022*

TECHNICAL SKILLS

Programming Languages: Python, Shell, Matlab, C/C++, HTML, Verilog, Assembly language
Deep Learning Frameworks: PyTorch, Tensorflow
Tools: Github, Latex, Office
Platforms: Linux, Mac, Windows