

# Xiangming Gu

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## EDUCATION

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### 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

*Undergraduate student majored in Electronic Engineering, GPA: 3.80/4.0*

*Aug. 2017 – June 2021*

### Tsinghua University

Beijing, China

*Undergraduate student double majored in Finance*

*Aug. 2018 – June 2021*

### National University of Singapore

Singapore

*Exchange student majored in Electrical and Computer Engineering, GPA: 4.875/5.0*

*Jan. 2020 – May 2020*

## PUBLICATIONS

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

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

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

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

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

## TECHNICAL SKILLS

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**Programming Languages:** Python, Shell, Matlab, C/C++, Verilog, Assembly language

**Deep Learning Frameworks:** PyTorch, Tensorflow

**Tools:** Github, Latex, Office

**Platforms:** Linux, Mac, Windows

## AWARDS

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**ISEP graduate Scholarship**, National University of Singapore, 2021

**Visiting Undergraduate Student Scholarship**, 2020

**Zheng Geru Scholarship**, Tsinghua University, 2018

## TEACHING

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### Teaching Assistant

National University of Singapore

*CS4243: Computer Vision and Pattern Recognition*

*Spring 2022*

## SERVICE

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