

# Xiangming Gu, Ph.D. Student

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🌐 <https://guxm2021.github.io>  
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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 13 papers**).
- 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, America.
- 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    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.
- 2    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.

### Preprints

- 1    Wei, W., Huang, H., Gu, X., Wang, H., & Wang, Y. (2022). *Unsupervised Mismatch Localization in Cross-Modal Sequential Data*.
- 2    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,  $\text{\LaTeX}$ , ...
- Libraries    📖 PyTorch, Tensorflow, ...




## Miscellaneous Experience

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### Academic Reviewers

Conferences     AISTATS 2021.  
Journals        RA-L.

### Awards and Scholarships

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

### Teaching Assistants

2022 Fall     **CS3244**. Machine Learning.  
2022 Spring     **CS4243**. Computer Vision and Pattern Recognition.