

# Fanqing Meng

17355289786 ♦ [mengfanqing33@gmail.com](mailto:mengfanqing33@gmail.com) ♦ <https://scholar.google.com/citations?user=iUIC-JEAAAAJhl=en>  
Research interests: *Multimodal Learning, Transfer Learning, Foundation Model*

## EDUCATION BACKGROUND

<b>Shanghai Jiaotong University</b> PhD Student <b>Advisor: Ping Luo</b>	2023 - 2028 (Expected)
<b>Tongji University</b> Bachelor of Software Engineering <b>GPA:4.82/5 Rank:7/212:</b>	2019 - 2023

## RESEARCH EXPERIENCES

- [1]: [Foundation Model is Efficient Multimodal Multitask Model Selector](#) (NIPS 2023) by **Fanqing Meng**, Wenqi Shao, Zhanglin Peng, Chonghe Jiang, Kaipeng Zhang, Yu Qiao, Ping Luo
- We introduce an efficient multi-task model selector (EMMS), which transforms different label formats of various downstream tasks into a unified noisy label embedding to evaluate a model's transferability. EMMS proves to be fast, effective, and versatile, establishing itself as the first model selection method in a multi-task scenario.
- [2]: [An Efficient Transformer for Demosaicing via Compressed Multi-branch Attention Mechanism](#) (ICASSP 2024) by Xun Wu\*, **Fanqing Meng\***, Yaqi Wu, Jiawei Zhang, Feng Zhang
- Proposed ECMT is an efficient and effective demosaicing approach that addresses the limitations of existing methods. It efficiently captures long-range spatial dependencies and reduces computational costs through innovative components, which have great results and lower computational requirements.
- [3]: [ChartAssistant: A Universal Chart Multimodal Language Model via Chart-to-Table Pre-training and Multitask Instruction Tuning](#) (Submit to CVPR2024) by **Fanqing Meng**, Wenqi Shao, Quanfeng Lu, Peng Gao, Kaipeng Zhang, Yu Qiao, Ping Luo
- ChartAssistant: an advanced chart-based vision-language model that excels in comprehending and reasoning with diverse chart types with two-stage training strategy, surpassing state-of-the-art methods and achieving impressive performance on real-world chart data.
- [4]: [CAU: A Causality Attention Unit for Spatial-temporal Sequence Forecast](#) (TMM) by Bo Qin, **Fanqing Meng**, Xianghui Fang, Guokun Dai, Shijin Yuan, Bin Mu
- [5]: [Lvlm-ehub: A comprehensive evaluation benchmark for large vision-language models](#) (Submit to TPAMI) by Peng Xu, Wenqi Shao, Kaipeng Zhang, Peng Gao, Shuo Liu, Meng Lei, **Fanqing Meng**, Siyuan Huang, Yu Qiao, Ping Luo
- [6]: [Tiny lvlm-ehub: Early multimodal experiments with bard](#) (Submit to TBD) by Wenqi Shao, Yutao Hu, Peng Gao, Meng Lei, Kaipeng Zhang, **Fanqing Meng**, Peng Xu, Siyuan Huang, Hongsheng Li, Yu Qiao, Ping Luo
- [7]: [OTST: A Two-Phase Framework for Joint Denoising and Remosaicing in RGBW CFA](#) (CVPR2023 Workshop) by Zhihao Fan, Xun Wu, **Fanqing Meng**, Yaqi Wu, Feng Zhang

## AWARD

<b>Tongji University First Class Scholarship (top 5%)</b>	2020,2021,2022
<b>2nd Mobile Intelligent Photography and Imaging WorkShop</b>	2023

## RESEARCH EXPERIENCES

<b>SenseTime</b> Research Intern (low level vision) Advisor: Dr. Jiawei Zhang	July 2022 - Dec 2022 Shanghai
<b>Shanghai AI Lab</b> Research Intern (foundation model) Advisor: Dr. Wenqi Shao	Jan 2023 - Shanghai

## SERVICES

**Reviewer of CVPR2024**