

# Fanqing Meng

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Research interests: *Multimodal Learning, Transfer Learning, Foundation Model*

## EDUCATION BACKGROUND

**Shanghai Jiaotong University**

PhD Student

Advisor: [Ping Luo](#)

2023 - 2028 (Expected)

**Tongji University**

Bachelor of Software Engineering

GPA:4.82/5 Rank:7/212:

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](#) (ACL2024 Findings) 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]: [MMT-Bench: A Multimodal MultiTask Benchmark for Comprehensive Evaluation of Large Vision-Language Models](#) (ICML2024) by Kaining Ying\*, **Fanqing Meng\***, Jing Wang\*, ... , Ping Luo , Wenqi Shao

- MMT-Bench is a comprehensive benchmark designed to rigorously evaluate Large Vision-Language Models (LVLMs) across diverse, expert-level multimodal tasks, enhancing the development of multimodal intelligence.

[5]: [CAU: A Causality Attention Unit for Spatial-temporal Sequence Forecast](#) (TMM) by Bo Qin, **Fanqing Meng**, Xianghui Fang, Guokun Dai, Shijin Yuan, Bin Mu

[6]: [Lvlm-ehub: A comprehensive evaluation benchmark for large vision-language models](#) (preprint) by Peng Xu, Wenqi Shao, Kaipeng Zhang, Peng Gao, Shuo Liu, Meng Lei, **Fanqing Meng**, Siyuan Huang, Yu Qiao, Ping Luo

[7]: [Tiny lvlm-ehub: Early multimodal experiments with bard](#) (preprint) by Wenqi Shao, Yutao Hu, Peng Gao, Meng Lei, Kaipeng Zhang, **Fanqing Meng**, Peng Xu, Siyuan Huang, Hongsheng Li, Yu Qiao, Ping Luo

[8]: [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

**Tongji University First Class Scholarship (top 5%)**

2020,2021,2022

**2nd Mobile Intelligent Photography and Imaging WorkShop**

2023

## RESEARCH EXPERIENCES

**SenseTime**

Research Intern (low level vision)

Advisor: Dr. Jiawei Zhang

July 2022 - Dec 2022

Shanghai

**Shanghai AI Lab**

Research Intern (foundation model)

Advisor: Dr. Wenqi Shao

Jan 2023 -

Shanghai

## SERVICES

**Reviewer of CVPR2024, ECCV2024**