

RONGYAO FANG

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EDUCATION

The Chinese University of Hong Kong

Sept.2021 - Oct.2025

Ph.D. at MMLab, Department of Electronic Engineering.

Supervisor: Prof. Hongsheng Li and Prof. Xiaogang Wang.

Topics: Multimodal Large Language Model, AIGC, Artificial General Intelligence.

Shanghai Jiao Tong University

Sept.2016 - July 2020

B.Eng., School of Electronic Information and Electrical Engineering.

Major: Information Engineering (Artificial Intelligence track).

Ranking: 1st/157.

Research: Independent researcher under the supervision of Prof. Bingbing Ni.

Massachusetts Institute of Technology

June 2019 - March 2020

Computer Science and Artificial Intelligence Laboratory (CSAIL).

Research: Independent visiting scholar under the supervision of Prof. Dina Katabi .

RESEARCH INTERESTS

My research targets **AGI for visual understanding and generation**. I focus on developing integrated systems that **perceive, understand, and generate** visual content through advanced computer vision techniques.

PUBLICATIONS

FLUX-Reason-6M & PRISM-Bench: A Million-Scale Text-to-Image Reasoning Dataset and Comprehensive Benchmark

Rongyao Fang, Aldrich Yu, Chengqi Duan, Linjiang Huang, Shuai Bai, Yuxuan Cai, Kun Wang, Si Liu, Xihui Liu, Hongsheng Li. ([Link](#)).

GoT-R1: Unleashing Reasoning Capability of MLLM for Visual Generation with Reinforcement Learning

Chengqi Duan*, Rongyao Fang*, Yuqing Wang*, Kun Wang, Linjiang Huang, Xingyu Zeng, Hongsheng Li, Xihui Liu. ([Link](#)).

GoT: Unleashing Reasoning Capability of Multimodal Large Language Model for Visual Generation and Editing

Rongyao Fang, Chengqi Duan, Kun Wang, Linjiang Huang, Hao Li, Shilin Yan, Hao Tian, Xingyu Zeng, Rui Zhao, Jifeng Dai, Xihui Liu, Hongsheng Li.

Conference on Neural Information Processing Systems (**NeurIPS 2025**) ([Link](#)).

PUMA: Empowering Unified MLLM with Multi-Granular Visual Generation

Rongyao Fang, Chengqi Duan, Kun Wang, Hao Li, Hao Tian, Xingyu Zeng, Rui Zhao, Jifeng Dai, Hongsheng Li, Xihui Liu.

International Conference on Computer Vision (**ICCV 2025**) ([Link](#)).

FouriScale: A Frequency Perspective on Training-Free High-Resolution Image Synthesis

Linjiang Huang*, Rongyao Fang*, Aiping Zhang, Guanglu Song, Si Liu, Yu Liu, Hongsheng Li.

European Conference on Computer Vision (**ECCV 2024**) ([Link](#)).

InstructSeq: Unifying Vision Tasks with Instruction-conditioned Multi-modal Sequence Generation

Rongyao Fang, Shilin Yan, Zhaoyang Huang, Jingqiu Zhou, Hao Tian, Jifeng Dai, Hongsheng Li. ([Link](#)).

FeatAug-DETR: Enriching One-to-Many Matching for DETRs with Feature Augmentation

Rongyao Fang, Peng Gao, Aojun Zhou, Yingjie Cai, Si Liu, Jifeng Dai, Hongsheng Li.

Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**) ([Link](#)).

Tip-Adapter: Training-free CLIP-Adapter for Better Vision-Language Modeling

Renrui Zhang*, **Rongyao Fang***, Peng Gao*, Wei Zhang, Kunchang Li, Jifeng Dai, Yu Qiao, Hongsheng Li.
European Conference on Computer Vision (**ECCV 2022**) ([Link](#)).

Clip-adapter: Better vision-language models with feature adapters

Peng Gao, Shijie Geng, Renrui Zhang, Teli Ma, **Rongyao Fang**, Yongfeng Zhang, Hongsheng Li, Yu Qiao.
International Journal of Computer Vision (**IJCV**) ([Link](#)).

Learning Longterm Representations for Person Re-Identification Using Radio Signals

Lijie Fan*, Tianhong Li*, **Rongyao Fang***, Rumen Hristov, Yuan Yuan, Dina Katabi.
Conference on Computer Vision and Pattern Recognition (**CVPR 2020**) ([Link](#)).

Probabilistic Radiomics: Ambiguous Diagnosis with Controllable Shape Analysis

Jiancheng Yang*, **Rongyao Fang***, Bingbing Ni, Yamin Li, Yi Xu, Linguo Li.
Medical Image Computing and Computer Assisted Intervention (**MICCAI 2019**) ([Link](#)).

INTERNS

SenseTime *Feb.2024 - Aug.2025*

Topics: Advanced multi-modal large language model.

Shanghai AI Laboratory *June 2022 - Apr. 2023*

Topics: Representation learning and vision perception.

HONORS AND AWARDS

Hong Kong PhD Fellowship *Sept. 2021*

Research Grants Council (RGC) of Hong Kong.

Outstanding Graduates of Shanghai *July 2020*

TOP 1%, Shanghai Municipal Education Commission.

National Scholarship *2017 & 2018*

TOP 1%, Ministry of Education of P.R.China.

Zhiyuan College Honors Scholarship *2017 & 2018*

TOP 5%, Zhiyuan College, Shanghai Jiao Tong University.

TECHNICAL SKILLS

Programming Languages: Python, MATLAB, C/C++, Java

Libraries and Tools: PyTorch, PyTorch Lightning, Accelerate, Transformers, DeepSpeed, et al.