

RONGYAO FANG

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EDUCATION

The Chinese University of Hong Kong

Sept.2021 - Present

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

Supervisor: Professor Hongsheng Li.

Research: Representation Learning, Visual Perception, Unified Vision Model.

Shanghai Jiao Tong University

Sept.2016 - July 2020

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

Major: Information Engineering (Artificial Intelligence track).

Overall GPA: 92.16/100 or 4.0/4.3, Ranking: **1st/157**

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

Massachusetts Institute of Technology

July 2019 - March 2020

Computer Science and Artificial Intelligence Laboratory.

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

University of Washington, Seattle

July 2017 - Aug.2017

Exchange program in Department of Electrical & Computer Engineering, University of Washington.

Overall GPA: 3.86/4.0

RESEARCH INTERESTS

My research interests center on AGI for visual perception and generation. I focus on developing integrated systems that can perceive, understand, and generate visual content through advanced computer vision techniques.

PUBLICATION

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.

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.

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.

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) Accepted.

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.

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.

Learning Longterm Representations for Person Re-Identification Using Radio Signals

Lijie Fan*, Tianhong Li*, Rongyao Fang* (equal contribution), Rumen Hristov, Yuan Yuan, Dina Katabi.

IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2020).

Probabilistic Radiomics: Ambiguous Diagnosis with Controllable Shape Analysis

Jiancheng Yang*, **Rongyao Fang***(equal contribution), Bingbing Ni, Yamin Li, Yi Xu, Linguo Li.

International Conference on Medical Image Computing and Computer Assisted Intervention (**MICCAI**), 2019. (Early Acceptance) ([Link](#))

HONORS AND AWARDS

Hong Kong PhD Fellowship Research Grants Council (RGC) of Hong Kong	<i>Sept. 2021</i>
National Scholarship TOP 1%, Ministry of Education of P.R.China.	<i>Oct. 2017</i>
National Scholarship TOP 1%, Ministry of Education of P.R.China.	<i>Oct. 2018</i>
Zhiyuan College Honors Scholarship TOP 5%, Zhiyuan College, Shanghai Jiao Tong University.	<i>2017 & 2018</i>
First Prize of Undergraduate Physics Contest, Shanghai Division Shanghai Physical Society.	<i>Oct. 2017</i>
Tang-Lixing Scholarship TOP 1 student in School of Electronic Information and Electrical Engineering.	<i>Oct. 2018</i>
First Prize of Academic Excellence Scholarship TOP 1%, Shanghai Jiao Tong University.	<i>Nov. 2018</i>