JI LIYA (姬莉娅)

- Born in June 1991 in China
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- Address: G/F and Rm.108, Robotics Institute, Lo Ka Chung University Center, HKUST

EDUCATION

Doctor of Philosophy, Supervisor: Prof. Qifeng Chen & Prof. Qiang Yang **2021.08 – 2024.10**

Computer Vision, Visual Intelligence Laboratory, HKUST

Master of Philosophy, GPA: 3.40/4.30, Supervisor: Prof. Qiang Yang **2012.08 – 2015.07**

Computer Science and Engineering, HKUST

Bachelor of Engineering, GPA: 85.83/100 **2008.09 – 2012.07**

Computer Science and Technology, Xi'an Jiaotong University

EXPERIENCE

Postdoctral Fellow (ITF), HKUST, Hong Kong **2025.01 – Present**

Work on Multi-modality LLMs related projects, including text-to-video generation and multi-modal editing.
Supervisor: Prof. Qifeng Chen

Computer Vision Center, Tencent AI Lab, Shenzhen **2023.06 – 2024.08**

Research Intern, Work on the Multi-modality LLMs with diffusion models for instruction-based image editing.
Mentor: Dr. Xiaodong Cun, Dr. Xintao Wang

Machine Intelligence Center, Lenovo Group Ltd, Hong Kong **2018.11 – 2021.06**

Manager (computer vision), Lead the product AutoCV with applications in the industry.

Machine Intelligence Center, Lenovo Group Ltd, Hong Kong **2017.01 – 2018.10**

Staff Researcher

Machine Intelligence Center, Lenovo Group Ltd, Hong Kong **2015.08 – 2016.12**

Researcher

Publications

Liya Ji is interested in generative models, low-level vision, and multi-modal LLMs. (* indicateds equal contribution and † indicates corresponding authors)

- ModelGrow: Continual Text-to-Video Pre-training with Model Expansion and Language Understanding Enhancement

  Zhefan Rao*, **Liya Ji***, Yazhou Xing, Runtao Liu, Zhaoyang Liu, Jiaxin Xie, Ziqiao Peng, Yingqing He†, Qifeng Chen†

Preprint, 2024 (In submission of CVPR 2025)

- A Diffusion Model with State Estimation for Degradation-Blind Inverse Imaging

  Liya Ji*, Zhefan Rao*, Sinno Jialin Pan, Chenyang Lei†, Qifeng Chen†

  AAAI, 2024

- Neural Image Popularity Assessment with Retrieval-Augmented Transformer

  Liya Ji*, Chan Ho Park*, Zhefan Rao*, Qifeng Chen†

  ACM MultiMedia, 2023

- LeapDetect: An Agile Platform for Inspecting Power Transmission Lines from Drones

  Guangcan Mai, Renjie Gou, **Liya Ji,** Hua Wu, Fei Cao, Qifeng Chen, Jun Luo†

  ICDM Workshop, 2019

Academic Services & Awards

- Program Reviewers: ACM Multimedia 2024, CVPR 2025, ICCV 2025
- Postgraduate Studentship in Hong University of Science and Technology in 2021-2024
- Team Excellence, FY2017/2018 Lenovo Corporate Award in 2018
- Excellent graduate in Xi'an Jiaotong University in 2012

Teaching Assistant

- COMP 5214 Spring 2024: Advanced Deep Learning Architectures
- SYSH 5000 Spring 2022: Model-Based Systems Engineering

Interests

Traveling, Photography, Dancing, Psychology