

JI LIYA (姬莉娅)

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EDUCATION

Doctor of Philosophy, Supervisor: Prof. Qifeng Chen & Prof. Qiang Yang	2021.08 – 2024.10
Computer Vision, Visual Intelligence Laboratory Hong Kong University of Science and Technology	
Master of Philosophy, GPA: 3.40/4.30, Supervisor: Prof. Qiang Yang	2012.08 – 2015.07
Machine Learning, Computer Science and Engineering Hong Kong University of Science and Technology	
Bachelor of Engineering, GPA: 85.83/100	2008.09 – 2012.07
Computer Science and Technology Xi'an Jiaotong University	

EXPERIENCE

Postdoctoral Fellow (ITF), Hong Kong University of Science and Technology	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, AI Lab, Tencent	2023.6 — 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	2018.11 – 2021.06
Manager (computer vision), Lead the product of AutoCV	
Machine Intelligence Center, Lenovo Group Ltd	2017.01 – 2018.10
Staff Researcher	
Machine Intelligence Center, Lenovo Group Ltd	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 Het, Qifeng Chen†



Preprint, 2024

- 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†

ICDMW, 2019

Academic Services & Awards

- Program Reviewers: ACM Multimedia 2024, CVPR 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