

# JI LIYA (姬莉娅)

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## EDUCATION

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

## EXPERIENCE

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<b>Postdoctoral Fellow (ITF), Hong Kong University of Science and Technology</b>	<b>2025.01 — Present</b>
Work on Multi-modality LLMs related projects, including text-to-video generation, multi-modal editing, and distillation. Supervisor: Prof. Qifeng Chen	
<b>Computer Vision Center, AI Lab, Tencent</b>	<b>2023.6 — 2024.08</b>
Research Intern, Work on the Multi-modality LLMs with diffusion models for instruction-based image editing. Mentor: Dr. Xiaodong Cun, Dr. Xintao Wang	
<b>Machine Intelligence Center, Lenovo Group Ltd</b>	<b>2018.11 – 2021.06</b>
Manager (computer vision), Lead the product of AutoCV	
<b>Machine Intelligence Center, Lenovo Group Ltd</b>	<b>2017.01 – 2018.10</b>
Staff Researcher	
<b>Machine Intelligence Center, Lenovo Group Ltd</b>	<b>2015.08 – 2016.12</b>
Researcher	

## Publications

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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

- 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

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- 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

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

## Interests

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Traveling, Photography, Dancing, Psychology