

# LINGXIAO LI

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## INTERESTS

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Generative Models, Unsupervised/Few-shot Learning, Representation Learning, OOD Generalization

## EDUCATION

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### Columbia University

Master of Science in Computer Science

New York, US

Jan 2021 - May 2022

- GPA: 3.66/4.33
- Courses: Natural Language Processing, Machine Learning, Computer Vision

### University of Liverpool

Bachelor of Science with Honours in Computer Science

Liverpool, UK

Sep 2018 - Jun 2020

- GPA: 3.89/4.00
- Courses: Software Engineering, Advanced Artificial Intelligence, Data Mining and Visualization

### Xi'an Jiao-tong Liverpool University

Bachelor of Science with Honours in Computer Science

Suzhou, CN

Sep 2016 - Jun 2018

- GPA: 3.89/4.00
- Courses: Calculus, Linear Algebra, Data Structure, Human-Centric Computing

## PUBLICATIONS

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1. **Lingxiao Li**, Kaixiong Gong, Weihong Li, Xili Dai, Tao Chen, Xiaojun Yuan, and Xiangyu Yue. “BIFRÖST: 3D-Aware Image Compositing with Language Instructions” *Submitted to Thirty-eighth Annual Conference on Neural Information Processing Systems (NeurIPS)*, 2024. **under review**
2. Yuanyuan Zhang, Ruiwei Guan, **Lingxiao Li**, Rui Yang, Yutao Yue, and Eng Gee Lim. “Radar-ODE: An ODE-based ECG Recovery and Auto-segmentation Model from Millimeter-wave Radar.” *arXiv preprint arXiv:2408.01672*, 2024. **under review**
3. **Lingxiao Li**, Yi Zhang, and Shuhui Wang. “The Euclidean Space is Evil: Hyperbolic Attribute Editing for Few-shot Image Generation.” *International Conference on Computer Vision (ICCV)*, 2023.
4. Wei Hao, Zixi Wang, Lauren Hong, **Lingxiao Li**, Nader Karayanni, Chengzhi Mao, Junfeng Yang, and Asaf Cidon. “Monitoring and Adapting ML Models on Mobile Devices.” *arXiv preprint arXiv:2305.07772*, 2023. **under review**
5. Congwei Ni, Sihan Cheng, Xutao Wang, Tianyun Hu, Zhenjin Dai, Dongliang Zhang, **Lingxiao Li**, and Xin Huang. “Model Checking the Reliability of Data Center Network.” *International Conference on Information Technology in Medicine and Education (ITME). IEEE*, 2018.

## RESEARCH EXPERIENCE

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### MMLab, Chinese University of Hong Kong

Research Assistant

Diffusion-based Customized Image Editing and Generation

Advisor: Prof. Xiangyu Yue

Hong Kong SAR

Dec 2023 - present

**Institute of Computing Technology, Chinese Academy of Sciences**  
Research Intern  
Few-shot Image Generation in Hyperbolic Space  
*Advisor: Prof. Shuhui Wang*

**Beijing, CN**  
*Aug 2021 - Dec 2023*

**Department of Computer Science, Columbia University**  
Research Assistant  
Monitoring and Adapting to Domain Shift Across Millions of Edge Devices  
*Advisor: Prof. Junfeng Yang and Prof. Asaf Cidon*

**New York, US**  
*Jan 2022 - Oct 2023*

**Department of Electrical Engineering, Columbia University**  
Research Assistant  
Cloud Enhanced Open Software Defined Mobile Wireless Testbed for City-Scale Deployment  
*Advisor: Prof. Zoran Kostic*

**New York, US**  
*May 2021 - Jan 2022*

## TEACHING EXPERIENCE

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**Columbia University**  
CSOR W4231 - Analysis of Algorithms  
*Instructor: Eleni Drinea*

**New York, US**  
*Spring 2022*

- Teaching Assistant for 250 students
- Developed course material, assignments and gave tutorials

## SKILLS

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- **Frameworks:** Pytorch, TensorFlow, Keras, OpenCV
- **Programming Languages:** Python, Java, Matlab, L<sup>A</sup>T<sub>E</sub>X, HTML, SQL, JavaScript, Swift, PHP

## SERVICES

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- **Reviewer:** ICML 2024, ICLR 2024, NeurIPS 2024, ICPR 2024, ECCV 2024

## ACTIVITIES

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- **Volunteer:** Primary School Teacher, AIESEC Overseas Volunteer Program in Colombo, Sri Lanka, Jul 2017
- **Interests:** Classical Music, Trumpet (Trumpet Player of Suzhou Youth Philharmonic Orchestra), History, Philosophy
- **GRE:** 322 [V154+Q168] +W3.0, Nov. 2019