LINGXIAO LI

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INTERESTS

Generative Models, Unsupervised/Few-shot Learning, Multi-modal Learning, OOD Generalization

EDUCATION

Columbia University **New York, US**
Master of Science in Computer Science *Jan 2021 - May 2022*

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

University of Liverpool **Liverpool, UK**
Bachelor of Science with Honours in Computer Science *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 **Suzhou, CN**
Bachelor of Science with Honours in Computer Science *Sep 2016 - Jun 2018*

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

PUBLICATIONS

1. Wei Hao, Zixi Wang, Lauren Hong, **Lingxiao Li**, Nader Karayanni, Chengzhi Mao, Junfeng Yang, and Asaf Cidon. "Nazar: Monitoring and Adapting ML Models on Mobile Devices." In *ACM International Conference on Architectural Support for Programming Languages and Operating Systems (**ASPLOS**)*, 2025.
2. **Lingxiao Li**, Kaixuan Fan, Boqing Gong, and Xiangyu Yue. "HypDAE: Hyperbolic Diffusion Autoencoders for Hierarchical Few-shot Image Generation and Editing." *arXiv preprint arXiv: 2411.17784*, 2024. **under review**
3. **Lingxiao Li**, Kaixiong Gong, Weihong Li, Xili Dai, Tao Chen, Xiaojun Yuan, and Xiangyu Yue. "Bifröst: 3D-Aware Image Compositing with Language Instructions" In *Conference on Neural Information Processing Systems (**NeurIPS**)*, 2024.
4. 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**
5. **Lingxiao Li**, Yi Zhang, and Shuhui Wang. "The Euclidean Space is Evil: Hyperbolic Attribute Editing for Few-shot Image Generation." In *International Conference on Computer Vision (**ICCV**)*, 2023.
6. 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." In *International Conference on Information Technology in Medicine and Education (**ITME**). IEEE*, 2018.

RESEARCH EXPERIENCE

MMLab, The Chinese University of Hong Kong **Hong Kong SAR**
Research Assistant *Dec 2023 - present*

- LLM Guided 3D-Aware Image Composition **(NeurIPS '24)**
- Diffusion Autoencoders for Hierarchical Few-shot Image Generation **(Under Review)**

Advisor: Prof. Xiangyu Yue

Institute of Computing Technology, Chinese Academy of Sciences **Beijing, CN**
Research Intern *Aug 2021 - Mar 2023*

- Few-shot Image Generation in Hyperbolic Space **(ICCV '23)**

Advisor: Prof. Shuhui Wang

Department of Computer Science, Columbia University **New York, US**
Research Assistant *Jan 2022 - Oct 2023*

- Monitoring and Adapting to Domain Shift Across Millions of Edge Devices **(ASPLOP '25)**

Advisor: Prof. Junfeng Yang and Prof. Asaf Cidon

Department of Electrical Engineering, Columbia University **New York, US**
Research Assistant *May 2021 - Jan 2022*

- Cloud Enhanced Open Software Defined Mobile Wireless Testbed for City-Scale Deployment

Advisor: Prof. Zoran Kostic

TEACHING EXPERIENCE

Columbia University **New York, US**
CSOR W4231 - Analysis of Algorithms *Spring 2022*
Instructor: Eleni Drinea

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

SKILLS

- **Frameworks**: Pytorch, TensorFlow, Keras, OpenCV
- **Programming Languages**: Python, Java, Matlab, LaTeX, HTML, SQL, JavaScript, Swift, PHP

SERVICES

- **Conference Reviewer**: ICLR 2024-25, CVPR 2025, AISTATS 2025, ICML 2024, NeurIPS 2024, ECCV 2024
- **Journal Reviewer**: TPAMI

ACTIVITIES

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