LINGXIAO LI

Ho Sin-Hang Bldg 703, CUHK, Hong Kong SAR

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INTERESTS

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

EDUCATION

Columbia University   **New York, NY**
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: Data Structures, 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 2020*

- GPA: 3.89/4.00
- Courses: Calculus, Linear Algebra

PUBLICATIONS

1. **Lingxiao Li**, Kaixiong Gong, Weihong Li, Xili Dai, Tao Chen, Xiaojun Yuan, and Xiangyu Yue. "BIFRÖST: 3D-Aware Image Composing 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." ***Submitted to*** *IEEE Transactions on Mobile Computing*, 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

Diffusion-based Customized Image Editing and Gneration
Department of Information Engineering, the Chinese University of Hong Kong   *Dec 2023 - present*
Advisor: Prof. Xiangyu Yue

Few-shot Image Generation in Hyperbolic Space
Institute of Computing Technology, the Chinese Academy of Sciences   *Aug 2021 - present*
Advisor: Prof. Shuhui Wang

Monitoring and Adapting to Domain Shift Across Millions of Edge Devices

Department of Computer Science, Columbia University *Jan 2022 - Oct 2023*

Advisor: Prof. Junfeng Yang and Prof. Asaf Cidon

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

Department of Electrical Engineering, Columbia University *May 2021 - Jan 2022*

Advisor: Prof. Zoran Kostic

TEACHING EXPERIENCE

Columbia University **New York, NY**

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

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

ACTIVITIES

- **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