

MUYANG LI

✉ lmxxy1999@foxmail.com · ☎ (+86) 18217293596 · 🌐 lmxxy · in Muyang Li · 🌐 lmxxy.me

🎓 EDUCATION

Carnegie Mellon University

Aug. 2021 – Present

Master of Science in Robotics

Pittsburgh, USA

- Advised by [Prof. Jun-Yan Zhu](#)
- Quality Point Average (QPA): 4.08/4.33

Shanghai Jiao Tong University

Sep. 2016 – Jun. 2020

Bachelor of Engineering in Computer Science

Shanghai, China

- Member of [ACM Class](#), an elite CS program for the top 5% talented students.
- GPA: 89.9/100 3.85/4.3

🔍 RESEARCH INTERESTS

My research interest is in the intersection of machine learning, system, and computer graphics.

I am currently working on building efficient and hardware-friendly generative models with its applications in computer vision and graphics.

📄 PUBLICATIONS

- [1] **Muyang Li**, Ji Lin, Chenlin Meng, Stefano Ermon, Song Han and Jun-Yan Zhu, *Efficient Spatially Sparse Inference for Conditional GANs and Diffusion Models* ([NeurIPS 2022](#))
- [2] Yihan Wang, **Muyang Li**, Han Cai, Wei-Ming Chen and Song Han, *Lite Pose: Efficient Architecture Design for 2D Human Pose Estimation* ([CVPR 2022](#)) 📄
- [3] **Muyang Li**, Ji Lin, Yaoyao Ding, Zhijian Liu, Jun-Yan Zhu, and Song Han, *GAN Compression: Efficient Architectures for Interactive Conditional GANs* ([CVPR 2020 & T-PAMI](#)) 📄

👤 EXPERIENCES

OmniML Inc.

Jul. 2019 – Jan. 2020

Summer Intern Work with [Prof. Song Han](#)

San Jose, USA

Efficient vision model deployment on edge devices.

CMU Generative Intelligence Lab

Jul. 2019 – Jan. 2020

Master Student Advisor: [Prof. Song Han](#) and [Prof. Jun-Yan Zhu](#)

Pittsburgh, USA

Work on efficient generative models.

Dawnlight Inc.

Jul. 2020 – Present

Data Scientist Work with [Prof. Song Han](#) and [Prof. Jia Li](#)

Shanghai, China

Lite Pose: Efficient Architecture Design for 2D Human Pose Estimation

- Design a light-weighted 2D pose estimation backbone.
- Deploy the model on Jetson Nano and Raspberry Pi with TVM.
- **Accepted by CVPR2022.**

Applications of Computer Vision on Health Care

- Use skeleton-based action recognition model for the health care of the diabetics.
- Integrate **human-object interaction** in the skeleton-based action recognition model.
- Deploy the recognition model for production and prepare a demo.

MIT HAN Lab

Research Assistant Advisor: Prof. Song Han and Prof. Jun-Yan Zhu

Jul. 2019 – Jan. 2020

Massachusetts, USA

GAN Compression: Efficient Architectures for Interactive Conditional GANs

- Design a **general** framework to compress the conditional GANs.
- Achieve **ultra-high compression rate** without losing performance.
- Build a **real-time demo** for our proposed algorithm.
- **Accepted by CVPR2020 and T-PAMI.**

TEACHING

SJTU ACM Coach

Coach of ACM Teams Manager: Prof. Yong Yu

Jun. 2018 – Apr. 2019


SJTU Data Structure (CS147)

Teaching Assistant Manager: Prof. Huiyu Weng

Mar. 2018 – May. 2018

HIGHLIGHTED PROJECTS


Lite-Pose

 mit-han-lab/litepose

Python A light-weighted pose estimation model that could run on mobile devices.

Mar. 2021 – Jun. 2022

GAN Compression

 mit-han-lab/gan-compression

Python A general conditional GAN Compression framework.

Jul. 2019 – Apr. 2020


OS-Kernel

 lmxxy/OS-Kernel

NASM, C An OS-Kernel from scratch developed by myself.

Apr. 2018 – Jul. 2018

Mx* Compiler

 lmxxy/Mx_star-Compiler

Java, NASM A Java-and-C-like language compiler from scratch developed by myself.

Mar. 2018 – Jun. 2018

RISCV32 CPU

 lmxxy/RISCV-CPU

Verilog, RISC-V A RISC-V CPU from scratch developed by myself.

Dec. 2017 – Jan. 2018

HONORS AND AWARDS

Gold Medal, Award on CCPC2017 Harbin Regional, Ranked 10th

Oct. 2017

Gold Medal, Award on ICPC2017 Qingdao Regional, Ranked 5th

Nov. 2017

3rd Runner-up, Award on ICPC2017 Jakarta Regional

Nov. 2017

1st Runner-up, Award on Singing Competition of Zhiyuan College in SJTU

Dec. 2017

Jin Long Yu Fellowship, Award for top 1% students

Dec. 2017

Huawei Scholarship, Award for top 20% students

Dec. 2018

1st Runner up's Coach, Award on ICPC2018 Pathom Regional

Nov. 2018

A-Class School-level Scholarship, Award for top 1% students

Dec. 2018

Zhiyuan Honorary Scholarship (3 times), Award for top 5% students

2016, 2017, 2018

Honorable Mention, Award for 2019 American Interdisciplinary Contest in Modeling (ICM)

Jan. 2019

⚙️ SKILLS

Programming Languages: C++/C = Python > Java

Deep Learning Packages: PyTorch, TensorFlow

Languages: English - Proficient, Mandarin - Native speaker, Japanese - Amateur

Other: Pop Singing