

# MUYANG LI

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## 🎓 EDUCATION

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- Massachusetts Institute of Technology** Sep. 2023 – Present  
*Ph.D.* student at EECS, advised by [Prof. Song Han](#) Cambridge, MA
- Carnegie Mellon University** Aug. 2021 – May 2023  
*Master of Science* in Robotics, advised by [Prof. Jun-Yan Zhu](#) Pittsburgh, PA
- Quality Point Average (QPA): 4.05/4.33
- 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.

## 🔍 RESEARCH INTERESTS

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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 [GOOGLE SCHOLAR \(366 CITATIONS\)](#)

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- [1] **Muyang Li\***, Tianle Cai\*, Jiaxin Cao, Qinsheng Zhang, and Han Cai, Junjie Bai, Yangqing Jia, Ming-Yu Liu, Kai Li, and Song Han, *DistriFusion: Distributed Parallel Inference for High-Resolution Diffusion Models (CVPR 2024 Highlight)* 📄
- [2] Han Cai, **Muyang Li**, Zhuoyang Zhang, Qinsheng Zhang, Ming-Yu Liu, and Song Han, *Condition-Aware Neural Network for Controlled Image Generation (CVPR 2024)* 📄
- [3] **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 & T-PAMI 2023)* 📄
- [4] Yihan Wang, **Muyang Li**, Han Cai, Wei-Ming Chen and Song Han, *Lite Pose: Efficient Architecture Design for 2D Human Pose Estimation (CVPR 2022)* 📄
- [5] **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 2021)* 📄

## 👤 EXPERIENCES

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- NVIDIA** May 2024 – Aug. 2024  
*Summer Intern* Work with [Prof. Song Han](#) Santa Clara, CA  
Efficient diffusion models.
- NVIDIA** Jun. 2023 – Aug. 2023  
*Summer Intern* Work with [Prof. Song Han](#) and [Ming-Yu Liu](#) Shanghai, China  
Distributed diffusion models ([DistriFusion](#), [CVPR'24](#)) and condition-aware networks ([CAN](#), [CVPR'24](#)).
- CMU Generative Intelligence Lab** Aug. 2021 – Present  
*Master's Student* Advisor: [Prof. Song Han](#) and [Prof. Jun-Yan Zhu](#) Pittsburgh, USA  
Sparse image editing engine to accelerate GANs and diffusion models ([SIGE](#), [NeurIPS'22&T-PAMI'23](#)).
- OmniML Inc.** May 2022 – Aug. 2022  
*Summer Intern* Work with [Prof. Song Han](#) San Jose, CA  
Efficient vision model deployment on edge devices (e.g., Jetson devices and mobiles).


**Dawnlight Inc.** Jul. 2020 – Jul. 2021  
*Data Scientist* Work with [Prof. Song Han](#) and [Prof. Jia Li](#)  
Shanghai, China  
Efficient pose estimation (**Lite Pose, CVPR'22**).


**MIT HAN Lab** Jul. 2019 – Jan. 2020  
*Research Assistant* Advisor: [Prof. Song Han](#) and [Prof. Jun-Yan Zhu](#)  
Cambridge, MA  
General conditional GANs' compression framework (**GAN Compression, CVPR'20&T-PAMI'21**).


## OPEN-SOURCED PROJECTS

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 **mit-han-lab/gan-compression (1.1K Stars)** Jul. 2019 – Apr. 2020  
*Python* A general conditional GAN Compression framework.

 **mit-han-lab/distrifuser (>500 Stars)** Oct. 2023 – Feb. 2024  
*Python* A distributed framework to accelerate diffusion models with multiple GPUs.

 **lmxyy/sige** Jul. 2021 – Nov. 2022  
*Python/C++/CUDA/Metal* A sparse engine to accelerate image editing for GANs and diffusion models.

 **mit-han-lab/litepose** Mar. 2021 – Jun. 2022  
*Python* A light-weighted pose estimation model that could run on mobile devices.

## HONORS AND AWARDS

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*Seneff-Zue CS Fellowship (\$98K)* Sep. 2023  
*Gold Medal, Award on CCPC2017 Harbin Regional, Ranked 10<sup>th</sup>* Oct. 2017  
*Gold Medal, Award on ICPC2017 Qingdao Regional, Ranked 5<sup>th</sup>* Nov. 2017  
*3<sup>rd</sup> Runner-up, Award on ICPC2017 Jakarta Regional* Nov. 2017  
*1<sup>st</sup> Runner-up, Award on Singing Competition of Zhiyuan College in SJTU* Dec. 2017  
*Jin Long Yu Fellowship, Award for top 1% students* Dec. 2017  
*1<sup>st</sup> Runner up's Coach, Award on ICPC 2018 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

## ACADEMIC SERVICES

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- Conference Reviewer: ICML, ICLR, NeurIPS, ICCV, CVPR, SIGGRAPH Asia
- Journal Reviewer: T-PAMI, IJCV, TVCJ, TCSVT

## TEACHING

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**SJTU ACM-ICPC Coach** Jun. 2018 – Apr. 2019  
**TA at SJTU Data Structure (CS147)** Mar. 2018 – May 2018

## SKILLS

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Programming Languages: C++/C/Cuda = Python > Java  
Deep Learning Packages: PyTorch, TensorFlow, TVM, TensorRT  
Languages: English - Proficient, Mandarin - Native speaker, Japanese - Amateur  
Other: Pop Singing