

MUYANG LI

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🎓 EDUCATION

Massachusetts Institute of Technology

Ph.D. at EECS, advised by [Prof. Song Han](#)

Sep. 2023 – Jan. 2026

Cambridge, MA

Carnegie Mellon University

Master of Science in Robotics, advised by [Prof. Jun-Yan Zhu](#)

Aug. 2021 – May 2023

Pittsburgh, PA

Shanghai Jiao Tong University

Bachelor of Engineering in Computer Science

Sep. 2016 – Jun. 2020

Shanghai, China

- Member of [ACM Class](#), an elite CS program for the top 5% talented students.

🔍 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 [GOOGLE SCHOLAR](#)

- [1] Xingyang Li*, Muyang Li*, Tianle Cai, Haocheng Xi, Shuo Yang, Yujun Lin, Lvmin Zhang, Songlin Yang, Jinbo Hu, Kelly Peng, Maneesh Agrawala, Ion Stoica, Kurt Keutzer, and Song Han, *Radial Attention: $O(n \log n)$ Sparse Attention with Energy Decay for Long Video Generation* (**NeurIPS 2025**) [📄](#)
- [2] Shuo Yang*, Haocheng Xi*, Yilong Zhao, [Muyang Li](#), Jintao Zhang, Han Cai, Yujun Lin, Xiuyu Li, Chenfeng Xu, Kelly Peng, Jianfei Chen, Song Han, Kurt Keutzer, and Ion Stoica, *Sparse VideoGen2: Accelerate Video Generation with Sparse Attention via Semantic-Aware Permutation* (**NeurIPS 2025 Spotlight**) [📄](#)
- [3] Lvmin Zhang, Shengqu Cai, [Muyang Li](#), Gordon Wetzstein, and Maneesh Agrawala, *Frame Context Packing and Drift Prevention in Next-Frame-Prediction Video Diffusion Models* (**NeurIPS 2025 Spotlight**) [📄](#)
- [4] Haocheng Xi*, Shuo Yang*, Yilong Zhao, Chenfeng Xu, [Muyang Li](#), Xiuyu Li, Yujun Lin, Han Cai, Jintao Zhang, Dacheng Li, Jianfei Chen, Ion Stoica, Kurt Keutzer, and Song Han, *Sparse VideoGen: Accelerating Video Diffusion Transformers with Spatial-Temporal Sparsity* (**ICML 2025**) [📄](#)
- [5] Enze Xie*, Junsong Chen*, Yuyang Zhao[†], Jincheng Yu[†], Ligeng Zhu[†], Chengyue Wu, Yujun Lin, Zhekai Zhang, [Muyang Li](#), Junyu Chen, Cai Han, Bingchen Liu, Daquan Zhou, and Song Han, *SANA 1.5: Efficient Scaling of Training-Time and Inference-Time Compute in Linear Diffusion Transformer* (**ICML 2025**) [📄](#)
- [6] [Muyang Li](#)*, Yujun Lin*, Zhekai Zhang*, Tianle Cai, Xiuyu Li, Junxian Guo, Enze Xie, Chenlin Meng, Jun-Yan Zhu, and Song Han, *SVDQuant: Absorbing Outliers by Low-Rank Components for 4-Bit Diffusion Models* (**ICLR 2025 Spotlight**) [📄](#)
- [7] Enze Xie*, Junsong Chen*, Junyu Chen, Han Cai, Haotian Tang, Yujun Lin, Zhekai Zhang, [Muyang Li](#), Ligeng Zhu, Yao Lu, Song Han, *SANA: Efficient High-Resolution Image Synthesis with Linear Diffusion Transformers* (**ICLR 2025 Oral**) [📄](#)
- [8] Junyu Chen*, Han Cai*, Junsong Chen, Enze Xie, Shang Yang, Haotian Tang, [Muyang Li](#), Yao Lu, and Song Han, *Deep Compression Autoencoder for Efficient High-Resolution Diffusion Models* (**ICLR 2025**) [📄](#)
- [9] [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**) [📄](#)
- [10] Han Cai, [Muyang Li](#), Zhuoyang Zhang, Qinsheng Zhang, Ming-Yu Liu, and Song Han, *Condition-Aware Neural Network for Controlled Image Generation* (**CVPR 2024**) [📄](#)
- [11] [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**) [📄](#)
- [12] Yihan Wang, [Muyang Li](#), Han Cai, Wei-Ming Chen and Song Han, *Lite Pose: Efficient Architecture Design for 2D Human Pose Estimation* (**CVPR 2022**) [📄](#)

- [13] [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**) 
- [14] Jindong Jiang*, Xiuyu Li*, Zhijian Liu, [Muyang Li](#), Guo Chen, Zhiqi Li, De-An Huang, Guilin Liu, Zhiding Yu, Kurt Keutzer, Sungjin Ahn, Jan Kautz, Hongxu Yin, Yao Lu, Song Han, and Wonmin Byeon, *Token-Efficient Long Video Understanding for Multimodal LLMs* 

EXPERIENCES

NVIDIA	May 2024 – Sep. 2025
<i>Research Intern</i> Work with Prof. Song Han	Santa Clara, CA
NVIDIA	Jun. 2023 – Aug. 2023
<i>Research Intern</i> Work with Prof. Song Han and Ming-Yu Liu	Shanghai, China
OmniML Inc.	May 2022 – Aug. 2022
<i>Summer Intern</i> Work with Prof. Song Han	San Jose, CA
Dawnlight Inc.	Jul. 2020 – Jul. 2021
<i>Data Scientist</i> Work with Prof. Song Han and Prof. Jia Li	Shanghai, China
MIT HAN Lab	Jul. 2019 – Jan. 2020
<i>Research Assistant</i> Advisor: Prof. Song Han and Prof. Jun-Yan Zhu	Cambridge, MA

OPEN-SOURCED PROJECTS

 nunchaku-tech/nunchaku (3.6K Stars)	May 2024 – Present
<i>Python/CUDA</i> 4-bit diffusion model inference engine.	
 nunchaku-tech/ComfyUI-nunchaku (2.7K Stars)	Mar. 2025 – Present
<i>Python/CUDA</i> ComfyUI plugin for Nunchaku.	
 nunchaku-tech/deepcompressor(700+ Stars)	May 2024 – Present
<i>Python</i> Quantization library for LLMs and diffusion models.	
 mit-han-lab/radial-attention (500+ Stars)	Mar. 2025 – Present
<i>Python</i> $\mathcal{O}(n \log n)$ sparse attention for video generation.	
 mit-han-lab/gan-compression (1.1K Stars)	Jul. 2019 – Apr. 2020
<i>Python</i> A general conditional GAN Compression framework.	
 mit-han-lab/distrifuser (700+ Stars)	Oct. 2023 – Feb. 2024
<i>Python</i> A distributed framework to accelerate diffusion models with multiple GPUs.	
 lmxyy/sige	Jul. 2021 – Nov. 2022
<i>Python/C++/CUDA/Metal</i> A sparse engine to accelerate image editing for GANs and diffusion models.	
 mit-han-lab/litepose	Mar. 2021 – Jun. 2022
<i>Python</i> A light-weighted pose estimation model that could run on mobile devices.	

HONORS AND AWARDS

<i>Best Pitch Award</i> , Award on MARC 2025	Jan. 2025
<i>Seneff-Zue CS Fellowship (\$98K)</i>	Sep. 2023
<i>Gold Medal</i> , Award on CCPC2017 Harbin Regional, Ranked 10 th	Oct. 2017
<i>Gold Medal</i> , Award on ICPC2017 Qingdao Regional, Ranked 5 th	Nov. 2017
<i>3rd Runner-up</i> , Award on ICPC2017 Jakarta Regional	Nov. 2017
<i>1st Runner-up</i> , Award on Singing Competition of Zhiyuan College in SJTU	Dec. 2017
<i>Jin Long Yu Fellowship</i> , Award for top 1% students	Dec. 2017
<i>1st Runner up's Coach</i> , Award on ICPC 2018 Pathom Regional	Nov. 2018
<i>A-Class School-level Scholarship</i> , Award for top 1% students	Dec. 2018
<i>Zhiyuan Honorary Scholarship</i> (3 times), Award for top 5% students	2016, 2017, 2018
<i>Honorable Mention</i> , Award for 2019 American Interdisciplinary Contest in Modeling (ICM)	Jan. 2019

ACADEMIC SERVICES

- Conference Reviewer: ICML, ICLR, NeurIPS (Top Reviewer in 2025), ICCV, CVPR, SIGGRAPH Asia
- Journal Reviewer: T-PAMI, IJCV, TVCJ, TCSVT

TEACHING

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

SKILLS

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