Luzhe Sun

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 \Box (+1)415-624-9802

Website link

RESEARCH INTEREST

- Diffusion models for action planning, state estimation and trajectory planning
- Embodied grounding with foundation models in unstructured environments
- Multi-modal reasoning for robotics planning in wild scenes

Overall GPA: 3.74/4.00 Major GPA: 3.92/4.00 Ranking:4/125

EDUCATION BACKGROUND

Toyota Technological Institute at Chicago <i>Ph.D. Candidate in Computer Science, advised by Prof. Matthew R. Walter</i>	Chicago, US Sept 2023 - Present
University of Chicago	Chicago, US
Master Program in Computer Science GPA: 3.77/4.00	Sept 2021 - Mar 2023
Xiamen University	Xiamen, China
Bachelor of Software Engineering, Graduate with Honor	Sept 2017 - Jul 2021

PUBLICATIONS

• "FlashBack: Consistency Model-Accelerated Shared Autonomy"	CoRL 2025
Luzhe Sun, Jingtian Ji, Xiangshan Tan, Matthew R. Walter	

- "StackGen: Generating Stable Structures from Silhouettes via Diffusion" IROS 2025

 <u>Luzhe Sun*</u>, Takuma Yoneda*, Samuel W. Wheeler, Tianchong Jiang, Matthew R. Walter
- "To the Noise and Back: Diffusion for Shared Autonomy" RSS 2023
 Takuma Yoneda, Luzhe Sun, Ge Yang, Bradly Stadie, Matthew R. Walter
- "Decompositional Quantum Graph Neural Network"
 Xing Ai, Luzhe Sun, Junchi Yan, Zhihong Zhang and Edwin Hancock

AWARDS & ACHIEVEMENTS

Honored Graduates Student, Xiamen University	2021
• National Scholarship (TOP 0.2% nationwide), Chinese Ministry of Education	2020
• National Scholarship (TOP 0.2% nationwide), Chinese Ministry of Education	2019
National Second Prize of China Undergraduate Mathematical Contest in Modeling	2019
National Third Prize of China Students Service Outsourcing Competition	2019
• Huang Xilie Scholarship of Xiamen University in 2019 (2/200)	2019

PROFESSIONAL SERVICE

TTIC Summer Workshop on Multimodal Artificial Intelligence	2024.08 — Organizer
Midwest Robotics Workshop	2024.04 — Volunteer
Girls who code	2023.10 — Volunteer
4th China "Internet +" College Studentsand Entrepreneurship Competition	2018.10 — Volunteer

SKILLS

- Tools/Plateform: Git, Docker, MATLAB, Navicat, Postman, Huggingface
- Coding Frameworks: PyTorch, TensorFlow, Linux, Bash
- **Programming**: Python, C/C++, SQL, HTML

[Updated 2025.09.02]