

Luzhe Sun

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☎ (+1)415-624-9802

🔗 Github link

🌐 Website link

RESEARCH INTEREST

- Diffusion models in action planning, state estimation and trajectory planning
- Embodied grounding with foundation models in unstructured environments
- Multi-modal reasoning, robotic learning and planning

EDUCATION BACKGROUND

Toyota Technological Institute at Chicago

Ph.D. Student in Computer Science

Chicago, US

Sept 2023 - Present

University of Chicago

Master Program in Computer Science | GPA: 3.77/4.00

Chicago, US

Sept 2021 - Mar 2023

Xiamen University

Bachelor of Software Engineering, Graduate with Honor

Xiamen, China

Sept 2017 - Jul 2021

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

PUBLICATIONS

- **"Efficient Open World Reasoning with Multimodal Localization"** In submission CVPR
Luzhe Sun, Jiading Fang, Jiawei Zhou, Matthew R. Walter
- **"StackGen: Generating Stable Structures from Silhouettes via Diffusion "** In submission ICRA
Luzhe Sun*, 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
- The First Prize Scholarship, Xiamen University 2018
- Xiamen University Social Work Scholarship 2018

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 Students and Entrepreneurship Competition

2018.10 — **Volunteer**

SKILLS

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

[Updated 2024.09.30]