## Siqiao Huang ☆ HomePage | ♀ Github | ♥ E-mail | ♀ Blog

2023 - 2027 (expected)

## **EDUCATION**

• IIIS (Yao Class), Tsinghua University

<ul> <li>B.S. in Computer Science; GPA: 3.92/4.00</li> <li>Selected Courses: Natural Language Processing(A+), Algebra and Computation(A+), Funda Programming(A+), Basic Principles of Marxism(A+).</li> </ul>	Beijing, China mentals of
HONORS AND AWARDS	
Comprehensive Excellence Award Tsinghug University University Scholarshin	Nov 2024
• Outstanding Sports Scholarship	Nov 2024
Tsinghua University, University Scholarship	100 2021
Research Experience	
• Trajectory World Models for Heterogeneous Environments Advisor: Prof. Mingsheng Long   Tsinghua University	Jul 2024- Feb 2025
<ul> <li>Iry to answer the question: Can we effectively transfer knowledge across different morphol interaction modeling to tackle the out-of-distribution challenges in offline reinforcement lear</li> </ul>	<b>ogies</b> in physical ning?
• Pre-train on <b>data with distinct properties</b> : Exploratory, Experience replay and Expert Demo	stration.
• Demonstrates the <b>dynamics transfer benefits</b> in some state-based control environments.	
Selected Projects	
<ul> <li>A Survey on k-means Clustering Algorithms: Theoretical Analysis &amp; Performance Mostly Theoretical, Tools: Python, Pytorch</li> <li>Elucidated the computational complexity and convergence properties of K-means clustering</li> </ul>	Comparison Jan 2025 [
variants.	0
• DreamFactory : Grounding Language Models to World Models Tools: Puthon, Putorch	Nov 2024- Jan 2025
• Investigated the feasibility of utilizing language models as text-based world models.	
<ul> <li>Proposed a novel architecture to address the self-refutation issue of LLMs and testified it's elemptrical studies.</li> </ul>	fectiveness through
<ul> <li>ManiGen: Generative Simulation Pipeline with Maniskill2</li> </ul>	Oct 2024- Dec 2024
Tools: Python, Pytorch, XML	[\$] [\$
<ul> <li>Developed a generative simulation pipeline using Maniskin to automate task creation.</li> <li>Utilizes the power of LLMs to propose tasks, generate scenes, and produce task-specific code</li> </ul>	e for rewards,
parameters, and metrics.	
Course Sharing Platform      Trale: React, Carlo Restauricol, UTML, CCC, Jana Carrint	Jul 2024
<ul> <li>Designed and implemented a PostgreSQL-based course sharing platform using Scala for bac frontend</li> </ul>	kend and React for
$\circ$ Utilized Stable Diffusion 2 and Llama 2 API to enhance users experiences	
• CAD Escape Game	Dec 2023- Apr 2024
Tools: C#, Unity Engine	[•] [•]
• Developed a 2D Stickman vs CAD-themed game using Unity.	
• won zha prize in Sonware Design Comesi or Isingnua Univerity (2024).	
SKILLS	
• <b>Programming Languages:</b> Python, C/C++, C#, Scala, React, PostGreSQL, Swift, Unity Engin	e.

- **Professional Software:** Pytorch, JAX.
- Language: TOEFL: 117/120 (On first trial, Speaking: 30/30). CET-4: 688/710, CET-6: 685/710.

## MISC

- Hobbies: Basketball, Singing, Piano and Chinese Flute.
- Groups: I am a member of the IIIS basketball team and a member of Tsinghua University Chorus.
- In high school, I was quite into Physics & Chemistry, and participated in Olympiad in Physics and Olympiad in Chemistry.