

Jin Pan

Address: 1853 Lake Lila Lane, Apt. B3
Ann Arbor, Michigan

Email: jhinpan@umich.edu
Mobile: (+1) 6162747849

EDUCATION

- **University of Michigan** Ann Arbor, Michigan, US
B.S.E. in Computer Science 09/2022-05/2024(Expected)
 - **GPA:** 3.75/4.0
 - **Mathematics related Coursework:** Foundations of Computer Science, Category Theory
 - **Core Coursework:** Data Structure & Algorithm, Intro to Computer Organization, Computer Science Pragmatics, Intro to Machine Learning, Database Management Systems, Computer Vision, Extended Reality and Society
- **Shanghai Jiao Tong University - Joint Institute** Minhang, Shanghai, China
B.S.E. in Electrical and Computer Engineering 09/2020-08/2024(Expected)
 - **GPA:** 3.50/4.0
 - **Mathematics related Coursework:** Honors Calculus I-IV, Differential Equation, Discrete Mathematics, Probabilistic Methods in Engineering, Linear Algebra
 - **Core Coursework:** Electronic Circuits, Intro to Signals and Systems, Introduction to Logic Design, Programming and Elementary Data Structures

SKILLS SUMMARY

- **Programming Languages:** Python, C, C#, C++, MATLAB, SQL, Blueprint, Java, JavaScript
- **Languages:** TOEFL 105 (Reading: 29, Listening: 27, Speaking: 22, Writing: 27)
- **Game Engines:** Unity, Unreal Engine 4, Unreal Engine 5

EXPERIENCE AND PROJECTS

- **Human-AI Lab (HAIL), Prof. Anhong Guo & Prof. Steve Oney** University of Michigan
Research Assistant of Project: VR Copilot 06/2023-12/2023
 - **Contribution:** Conceptualized and developed VRCopilot, a VR platform for crafting 3D layouts. Led the integration of a server-hosted generative AI model to refine user interactions and enhance immersive experiences.
 - **Toolkit:** Employed Unity for development and collaborated with the AI team to utilize generative models for user interaction refinement.
 - **Outcome:** Authored the part of Immersive Authoring Environments for a comprehensive paper on VRCopilot, submitted to CHI 2024.
- **Human Factors Group, Prof. Paul A. Green** University of Michigan
Research Assistant of Project: Real-Time and Virtual Driving Simulator 05/2023-12/2023
 - **Map Construction:** A drivable simulation of I-94 from Ann Arbor to the Detroit Airport was created.
 - **Data Fetch:** Utilized Overpass Turbo API with Python scripts to extract OSM data of the I-94 segment from others.
 - **Deployment:** By deploying a car model, users could drive the simulation realistically in CARLA with a steering wheel.
- **Mini Course: ML Research via Replication, Prof. Sindhu Kutty** University of Michigan
Leader of Computer Vision Group 07/2023-08/2023
 - **Research:** Made reaction notes for paper in the fields of CV, NLP, RL, Recommendation Systems, and AI Fairness.
 - **Presentation:** Presented a detailed report for analyzing two CV papers: ImageNet and Style-based GAN.
 - **Replication Project:** Replicated paper of GIRAFFE from CVPR2021 and modified the dataset with paper of NERF.
- **Multidisciplinary Design Program (STARX)** University of Michigan
Leader of Project about Pneumatic Muscle 09/2022-04/2023
 - **Research:** Literature review on pneumatically powered exoskeletons, a branch of rehabilitation robotics.
 - **Modeling:** Using AutoCAD, the desired skeleton was modeled, and a metal prototype with air pocket was produced.
 - **Testing:** Connecting the Arduino board to the Pneumatic Muscles' Controller enabled feedback through algorithm.
 - **Planning:** Optimizing pneumatic muscle for lighter, more flexible exoskeletons expanded potential application fields.
- **Michigan AI Safety Initiative (MAISI)** University of Michigan
AI Safety Researcher 01/2023-03/2023
 - **Discussion:** Attended seminar on how to align AI, discussing specification gaming and reinforcement learning.
 - **Coursework:** Completed UCB's Intro to ML Safety, learning safety concerns and strategies for high-stakes AI settings.
 - **Hackathon:** Engaged in AI governance hackathon for valuable learning in diverse topics and virtual collaboration.

HONORS AND AWARDS

- **University Honors**, University of Michigan 12/2022
- **Dean's List**, University of Michigan 12/2022
- **Student Development Scholarship**, Shanghai Jiao Tong University - Joint Institute 11/2021
- **Three Good Student Designation**, Shanghai Jiao Tong University 10/2021
- **Outstanding Management Award**, Shanghai Jiao Tong University 10/2021
- **2nd Prize of VEX Robotics Competition**, Shanghai Jiao Tong University 11/2020

ACTIVITIES AND LEADERSHIP

- **Grader for EECS445: Introduction to Machine Learning** University of Michigan
Assisted in grading and guided students on ML concepts and challenges. 09/2023 - 12/2023
- **Vice President of Student Science & Technology Innovation Association** Shanghai Jiao Tong University
Set up platforms for all fellow students to share their passion for technology. 09/2021-08/2022
- **Minister of Society Management and Science Popularization Department** Shanghai Jiao Tong University
Managed all the scientific clubs in SJTU by integrating and allocating relative resources. 09/2021-04/2022
- **Assistant Class Advisor** Shanghai Jiao Tong University
Provided academic guide and help for the freshman of class 7. 09/2021-09/2022
- **Consultant of Advising Center** Joint Institute - Advising Center
Engaged with alums across diverse sectors to facilitate informational lectures. 09/2021-09/2022
- **Organizer of Dali Ecologic & Economic Creative Challenge Camp** Yunnan, China
Field study of all industries in Dali to propose methods to promote rural vitalization. 05/2021-06/2021