Xixiao Pan

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OBJECTIVES

- Seek Human Computer Interaction to utilize programming skills to help people.
- Accumulate research experiences to explore applications of HCI in real life.
- Available May-August 2024.

EDUCATION

- Participate in a dual-degree program between Shanghai Jiao Tong University and University of Michigan.
- **University of Michigan-Ann Arbor**, College of Engineering   [Sep. 2023 - May. 2025]
    - **Undergrad (Year 3&4)**, *Bachelor of Science in Engineering in Data Science*   CGPA: 3.84/4.0
- **Shanghai Jiao Tong University**, UM-SJTU Joint Institute   [Sep. 2021 – July 2023]
    - **Undergrad (Year 1&2)**, *Bachelor of Science in Engineering inElectronic and Computer Engineering*   CGPA: 3.6/4.0

ACHIEVEMENTS

- **Shanghai Jiao Tong University Undergraduate Excellent Scholarship**   [2021 - 2022]
- **Mathematical Contest In Modeling** Successful Participant   [2023]
  Designed a model to predict and prevent light pollution.

EXPERIENCE

- **SIM: Real-Time and Virtual Driving Simulator**   [Jan. 2024 - Present]
  A faculty research team in University of Michigan. Implement I94 map in UE5 and design the logic of vehicles. Team Composition: ten students.
- **Multimedia data quality assessment technology based on self-supervised learning**   [June. 2022 - April. 2023]
  A research team in Shanghai Jiao Tong University. Read articles and helped reproduce the SimCLR model. Team Composition: three students.
- **Web development: Simulate Instagram**   [Jan. 2024 - Present]
  Use Python, HTML, CSS, SQL to simulate basic functions of social media on web like user login process, following different users and sending posts. Team Composition: three students.
- **VR development: CSE Simulation**   [Jan. 2024 - Present]
  Use Unreal Engine 5 to simulate students' daily life in CSE Building. Contain multiple ways of interaction like using the computer, writing on the whiteboard and opening a switch. Team Composition: two students.
- **IOS AR application development: Happy Farm**   [Dec. 2023 - Present]
  Use Unity to simulate an AR farm game for entertainment on IOS mobile phone. Simulate interactions like putting animals and vehicles into real life scenes and animating them.
- **Predicting Depression Condition: Integrating Biochemical and Socioeconomic Indicators**   [Oct. 2023 - Dec. 2023]
  Collected dataset from CDC website to predict depression by biochemical and socioeconomic conditions. Implemented classification and prediction machine learning model in R language. Team Composition: four students.
- **Web Puzzle Games: SummerSara**   [May. 2022 - July. 2022]
  Designed a user interaction puzzle game by clicking and pressing keys. Completed game frames and lead group members to cooperate. Got high assessment from professors. Team Composition: four students.
- **Pos tagging English sentences**   [June. 2022 - July. 2022]
  Utilized linear algebra knowledge, Hidden Markov Chain, to implement simple part-of-speech tagging in Matlab. Obtained HMC and basic Machine Learning knowledge. Team Composition: three students.
- **Simulate an interstellar parking lot**   [Oct. 2021 - Dec. 2021]
  Visualized an animation of UFOs moving in a parking lot in C++. Learnt OpenGL to draw UFOs and smoothed movements of parking. Implemented back end codes. Learned github usage. Team Composition: three students.

SKILLS

- **Programming Skills**: C, C++, Python, SQL, Matlab, Elm, R, Unity, UE5, Github Usage, Verilog, HTML
- **Operating System**: Windows, Linux, MacOS
- **Language**: English (TOFEL-107/120), Chinese
- **Leadership and Responsibility**: Participated in Student Work and Association

ACTIVITIES

- **Member of Moli Dance Association in Umich** Participate in voluntary performances   [Sep. 2023 - Present]
- **Teaching Assistant of Two Courses in SJTU** Creative Writing and Academic Writing   [Feb. 2023 - July 2023]
- **Consultant of UM-SJTU Joint Institute Advising Center**   [Apr. 2022 - Aug. 2023]
  Scheduled a 3-hour meeting once per week, make posts, hold workshops to help students get useful information.
- **Member of Shanghai Jiao Tong University International Organization Talent Camp**   [Jul. 2022]
  Discuss international issues related to feminism, economy and environment.
- **President of Shanghai Jiao Tong University Nanyang Dance Association**   [Sep. 2022 - Aug. 2023]
  Manage daily affairs, organize shows. Lead it to a five-star association level.
- **Volunteer of Shanghai Jiao Tong University History Museum**   [Sep. 2022 - Jun. 2023]