Sitong Pan

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Education

Zhejiang University, BS in Geography Information Science   Sept 2021 – June 2025
- **GPA:** 3.9/4.0 | 88.5/100
- **TOEFL: 105** Reading 26 Listening 29 Speaking 22 Writing 28
- **Research Interest:** Human-AI Collaboration, Data Visualization, Interactive and Collaborative Learning

Skills

- **Languages:** Python, C++, C, SQL, JavaScript, Typescript, HTML, CSS
- **Frameworks:** Cesium, OpenGL, WebGL, React, Node.js, Flask
- **Software:** ArcGIS Pro, Qgis, NodeXL

Research Experience

Dream Lab, Texas A&M University   College Station, TX
Research Intern, supervised by **Prof. Meng Xia**   May 2024 – September 2024
- **Lead work(First Author Contribution):** A project on AI for Education *(Submitted a manuscript to CHI 25 for review)*
- **Work Contribution:**
  1. Conducted surveys to investigate Challenges encountered by Novice Tutors in Online Learning Environment.
  2. Developed an LLM-based System, for Practicing Engagement Strategies.
  3. Performed a User Study with Online Tutors to evaluate the effectiveness and usability of our proposed System.

Interactive Data Group, Zhejiang University   Hangzhou
Research Intern, supervised by **Prof. Yingcai Wu**   September 2023 – April 2024
- **Engaged work:** A project on LLM for data visualization and data analysis *(Submitted a manuscript to CHI 25 for review)*
- **Major Participation:**
  1. Conducted a formative study to identify patterns and sources of inconsistencies in similar data conditions within data-driven articles.
  2. Developed a React-based interactive system that visualizes data-driven articles' structures, represents streaming data from back-end, supports segment updating and provides adequate interaction between users and article elements.

Projects

Multimodal Reader leveraging LLMs   Hangzhou
Course Project   April 2024 - June 2024
- **Reader with generated music and images:** We utilize Generative Models to generate music and images according to the texts selected by user from a book. The generated photos and music describe the content of text and corresponds to the content style, which is expected to improve user experiences and provide a immersive reading experience.

Semantic POI Map of Hangzhou City   Hangzhou
Leader, Course Project   February 2023 – June 2023
- **Interactive Mapping and POI Features:** Engineered interactive map features to display Points of Interest with customizable search radii, offering options based on Euclidean distance or estimated travel times, and implemented category-based POI filtering to enhance user experience.

Visualization of Quadtree and R-Tree Spatial Index Hangzhou
Leader, Course Project December 2023 – January 2024

- **Index Implementation:** Implemented quad-tree and R-tree indexing for points, line strings, and polygons.
- **Index Visualization:** Visualized the bounding box of indexed objects (point, line string, polygon).
- **Interactive Index Visualization:** Enabled nearest neighbor queries for selected objects (point, line string, polygon)using mouse interaction.

Campus Activities

Zhejiang University Student Guitar Association Hangzhou
Deputy Leader September 2021 – June 2024

- Participated in planning and organizing campus music festivals, pop-up concerts and other large- scale music events.
- Organized a band and performed in campus music festivals.

Awards

Zhejiang University Second-Class Scholarship 2021-2022, 2022-2023
Academic Excellence Scholarship in Geographic Information Systems 2021-2022, 2022-2023
Zhejiang Physics Competition for University Students Third Prize 2022