

Jiamu Tang

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🌐 <https://itschanism.github.io/>

Education

University Of Rochester

Expected May 2026

Bachelor of Science in Data Science (minor in CS and Philosophy) (GPA: 3.94 / 4.00)

Rochester, NY

- **Relevant Coursework:** Data Structures and Algorithms, Deep Learning, Introduction to AI, Introduction to Statistical Machine learning, Data Mining, Natural language processing, Database System, Tools for Data Science, Discrete Mathematics, Linear Algebra with Differential Equation, Probability, Applied Statistics, Human-Computer Interaction, Web programming, Semantic analysis, Figma, Accounting, Philosophy of Artificial Intelligent
- **Certification:** Digital Product Management: Modern Fundamentals
- **Languages:** Python, Java, SQL, MySQL R, HTML, CSS, JavaScript, Figma, Arduino, Unity, Processing

Experience

BEAR Lab, University of Rochester

Jan 2025 – present

Research Assistant

Rochester, NY

- Develop and deploy four interactive VR scenes using **HTC Vive** and **Meta Quest** between different Unity environments for a study on avatar affordance and user guidance.
- Collaborated closely with lab members to conduct user studies, interviews, and qualitative analysis.
- Co-developed final video presentation and research slides using **Figma**.

University of Rochester HCI Lab

May 2024 – June 2024

Volunteer

Rochester, NY

- Developed the front-end platform for user studies using React for a better user interface and experience.
- Designed and conducted surveys on Amazon Mechanical Turk (MTurk) to gather data for ongoing HCI research.

University of Rochester Medical Center Lab

Sep 2023 – present

Research Assistant

Rochester, NY

- Conduct research on public perception and attitude toward E-cigarettes and their Flavors or Brands on Twitter through Natural Language Processing and Machine Learning Algorithm.
- Utilized Python (NLTK, NumPy, Pandas) for raw data processing.
- Implemented and fine-tuned the RoBERTa model for sentiment analysis, and improved model accuracy to over **85%**.
- Utilized LDA for topic modeling and Face++ for gender and age classification.

MiraclePlus

May 2023 – Sep 2023

Investment Assistant

Remote

- AI Startup Identification and Engagement for incubation. Crafted a Python script utilizing requests for web scraping, targeting websites listing AI startups, and extracting key profile and contact information.
- Engineered an automated email system using Python's smtplib library.

Local Business Analysis Project for Living Merchants from Alibaba

June 2023 – Sep 2023

Project manager


Rochester, NY

- Utilized SQL for data querying and extraction from Alibaba's merchant databases and developed a Pandas-based data metrics system to track and evaluate key business performance indicators
- Using Matplotlib and Seaborn to identify anomalies in GMV across different periods and store categories.
- Implemented time-series analysis Long Short Term Memories(LSTM) and regression models to identify trends and sales decline patterns in GMV.
- Developed data-driven strategic recommendations, including promotional campaigns and operational changes, to enhance GMV to Alibaba's executive team using visual presentations.

Projects

SICSS 2023 Summer Research | *Python, TensorFlow, Keras, Scikit-learn, Pandas, NLTK, Gensim, Tweepy* 2023 June

- Analyze suicide-related hashtags on Twitter among Generation Z.

 github.com/itsChanism/SICSS2023-social.media.mental.health

Sales Forecasting Project Using LSTM Neural Networks with Prof. Alex Iosevich | *Python, TensorFlow/Keras, Pandas, Matplotlib* 2022

- Developed a time series forecasting model using LSTM neural networks to predict sales trends, with a rolling-forecast strategy, and evaluation through RMSE, enhancing inventory management and financial planning.

 github.com/itsChanism/Sales.Forecasting.Project.Using.LSTM.Neural.Networks

Paper and Publication

- [C.1] **Jiamu Tang**, Runyan Tian, and Zhuying Li. (2025). **Dreamory: AI-Powered Bedtime Storytelling for Emotional Reframing Before In-Sleep Memory Consolidation**. In *Extended Abstracts of the 2025 CHI Conference on Human Factors in Computing Systems (CHI '25)*, Late-Breaking Work. ACM, April 30, 2025, Yokohama, Japan.
- [C.2] Lu Yang, Tianyu Zhang, **Jiamu Tang**, Jiankun Yang, Yukang Yan (2025). **Capability at a Glance: Design Guidelines for Intuitive Avatars Communicating Augmented Actions in Virtual Reality**. In submission, *Extended Abstracts of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*.
- [C.2] Lu Yang, **Jiamu Tang**, Jiankun Yang, Yukang Yan (2025). **Facial Expression Modulation in Realistic Avatars**. In submission, *Extended Abstracts of the 2026 CHI Conference on Human Factors in Computing Systems (CHI '26)*.