YIZHOU "VIOLA" TAN

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EDUCATION

Harvard University, Cambridge, MA

Sept 2024 - May 2026

Master in Design Studies, Domain: Technology | GPA: 3.85/4.0 | Merit Grant Recipient

- Coursework: Human-Computer Interaction, Data Science, Data Visualization (MIT)
- Teaching Assistantships: Mechanical Design, Informal Robotics (Held Grasshopper and Arduino workshops)

Rhode Island School of Design, Providence, RI

Aug 2019 - June 2024

Bachelor of Architecture, Minor in Computation | GPA: 3.89/4.0

- Awards: Sustainability Innovation Fund (\$7,200); Student Research Fund (\$4,000); Maharam Fellowship (\$5,000).
- Coursework (Brown University): Deep Learning (A), Computer Vision (A), Robotics (A)

PUBLICATIONS

RhinoAI: An LLM-Based 3D Modeling Assistant for Procedural Instructions and Demonstrations. Qiyao Chen*, <u>Yizhou Tan*</u>, Chung-Ta Hung*. (Submitted)

Identifying Urban Park Events through Computer Vision-Assisted Categorization of Publicly-Available Imagery. <u>Yizhou Tan</u>, Wenjing Li, Da Chen, Waishan Qiu. *ISPRS International Journal of Geo-Information, Vol. 12, Issue 10.*

Developing an Augmented Reality Lunar Surface Navigation System. Kienan Ahner-McHaffie, Selena Yang, <u>Yizhou Tan,</u> Bowen Zhou. *IEEE Aerospace Conference 2023*.

User-Extensible Block-Based Interfaces for Internet of Things Devices as New Educational Tools. <u>Yizhou Tan</u>, Marina Rizk, Gordon Stein, Akos Ledeczi. *IEEE SoutheastCon 2022*.

EXPERIENCE

Abaka.AI

Cambridge, MA

Product Manager Intern

Dec 2024 - Ongoing

- Defined and launched 7 major features for a data engineering platform for AI applications such as autonomous vehicles.
- Mapped client needs with internal stakeholders, created product requirements documents, and designed UX workflows.
- Addressed 3D point cloud data labeling needs for a major client, increasing task efficiency by 80%.

Massachusetts Institute of Technology, Visualization, Inquiry, and Analysis Learning Lab

Cambridge, MA

Research Intern | Advised by Dr. Eric Robsky Huntley

June - May 2024

- Analyzed parcel and business registration data with **Python**, SQL, and GIS to identify corporate landlord networks in MA.
- Visualized corporate land ownership through an interactive community installation using Arduino and Printed Circuit Boards, receiving a grant for \$7,200 and validations from over 50 community members.

Brown University, Human To Robots Lab

Providence, RI

Research Assistant | Advised by Prof. Stefanie Tellex

Aug - Dec 2021

- Developed autonomous drone software stack using Python, implementing PID control and state estimation.
- Led training, outreach, and tech support for high school teachers on Python and Robot Operating System.

Vanderbilt University, Institute for Software Integrated Systems

Nashville, TN

Undergraduate Researcher | Advised by Prof. Akos Ledeczi

June 2021 - Jan 2022

- Designed and modeled virtual robots and environments for an education platform featuring block-based programming.
- Simulated robot functionality using Unity C#, and created robot games for classroom engagement.

SKILLS

Design | Rhinoceros 3D (Grasshopper, GH Python), Figma, Adobe Creative Suite

Programming | Python (Scikit-Learn, Pandas, Seaborn, Tensorflow), ROS, C#, HTML/CSS/JavaScript (React, Vue.js)

Electronics & Digital Fabrication | Arduino, Raspberry Pi, Printed Circuit Boards, 3D Printing, Laser Cutting