

Yuchen Jin

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EDUCATION

University of Wisconsin-Madison

B.S. in Computer Science and Psychology

Madison, WI

Expected May 2025

- **Cumulative GPA:** 3.96
- **Relevant Courses:** Cognitive Psychology, Research Methods, Child Development, Behavioral Neuroscience, Building User Interfaces, Introduction to Algorithms, Introduction to Big Data Systems, Introduction to Human-Computer Interaction, Computer Graphics

RESEARCH EXPERIENCE

UW-Madison, Learning and Transfer Lab

Undergraduate Research Assistant

Jan 2022 – Present

Madison, WI

- Senior Thesis: Assessing Human Performance in Dynamic Color Mapping Systems
 - Advisors: Dr. C. Shawn Green, Dr. Karen Schloss
 - Designed and developed a calendar-like interface to test when maintaining current color-category mapping system results in the best performance
 - Wrote an IRB protocol for data collection
- Sophomore Thesis: Do Students Set Video Playback Speeds to Maximize Learning?
 - Advisors: Dr. C. Shawn Green, Ph.D. Candidate Ezgi Yüksel
 - Investigated meta-cognition of educational video playback speed
 - Designed and developed research material in Qualtrics
 - Analyzed data using R
- Conducted sessions of research on learning related to gaming abilities using MATLAB
- Trained undergraduate research assistants in conducting experiments and addressed any technical issues for all the above mentioned projects

Carnegie Mellon University, Software and Societal Systems Department

REU Research Intern

May 2024 – Present

Pittsburgh, PA

Advisors: Dr. Joshua Sunshine, Dr. Dominik Moritz, Ph.D Candidate Hwei-Shin Harriman

- Contributed to the design of a visual interactive geometric proof tool, Ender
- Built, improved UI elements such as hoverable tooltips, local event and response logging system using TypeScript
- Conducted semi-structured interviews and usability studies with geometry teachers
- Conducted usability and performance testing sessions with high school students to evaluate tool
- Assisted in data cleaning and analysis using Python and R

UW-Madison, People and Robots Lab

UI/UX Designer and Frontend Developer

Sep 2023 – Present

Madison, WI

- Worked on designing a collaborative colored Petri Net graph editor tool Statewise in visualizing Human-Robot Interaction systems
- Conducted tangible methods usability study of the tool
- Collaborated with other Frontend and Backend Developers

TEACHING EXPERIENCE

Peer Mentor

UW-Madison, CS571: Building User Interfaces

Jan, 2024 – Present

Madison, WI

- Enhanced students' learning environment by conducting 2-hour weekly sessions to resolve any student inquiries.
- Assisted students with understanding concepts in HTML/CSS, JavaScript, React, and React Native.

FELLOWSHIPS AND HONORS

- Hilldale Undergraduate/Faculty Research Fellowship 2024
- Sophomore Research Fellowship 2023
- Bryan's Aspiring Psychology Student Award 2022

PUBLICATIONS

- Harriman, H., Jin, Y., Ni, W., Moritz, D., & Sunshine, J. (under review) *Teaching Geometric Proof with Tech: Pitfalls and Possibilities* ACM (CHI 2025)
- Zhou, Z., Jin, Y., & Praveena, P. *Statewise: A Petri Net-Based Visual Editor for Specifying Robotic Systems* AAAI (UR-RAD 2024)

PRESENTATIONS

- Jin, Y., Yüksel, E., & Green, C.S. (2024, April 25) *Do Students Set Video Playback Speeds to Maximize Learning?* [Poster Presentation]. Undergraduate Symposium, Madison, WI.

TOOLS

Technical Skill: HTML, CSS, JavaScript, TypeScript, R Studio, Java, React.js, React Native, Node.js, Git

Visual Editors: Figma, Photoshop, Procreate, Blender