

# Yuchen (Rainy) Jin

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## EDUCATION

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### University of Wisconsin-Madison

Madison, WI

*B.S. in Computer Science and Psychology*

*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

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### UW-Madison, Learning and Transfer Lab

Jan 2022 – Present

*Undergraduate Research Assistant*

*Madison, WI*

- Senior Thesis: Assessing Human Performance in Dynamic Color Mapping Systems
  - Advisors: Dr. C. Shawn Green, Dr. Karen Schloss, Ph.D. Candidate Kushin Mukherjee
  - 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 learning when selecting 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

May 2024 – Present

*REU Research Intern*

*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, synthesizing insights through affinity diagrams
- Conducted usability and performance testing sessions with high school students to evaluate tool
- Assisted in data cleaning and analysis using Python and R
- Maintained accurate records of progress, created timeline and documented each step along the process with Notion

### UW-Madison, People and Robots Lab

Sep 2023 – Sep 2024

*UI/UX Designer and Frontend Developer*

*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 closely with frontend and backend developers to integrate features and ensure smooth functionality

## TEACHING EXPERIENCE

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### Peer Mentor

Jan, 2024 – Present

*UW-Madison, CS571: Building User Interfaces*

*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

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- Glushko Outstanding Undergraduate Cognitive Scientist Prize 2024
- Hilldale Undergraduate/Faculty Research Fellowship 2024
- Sophomore Research Fellowship 2023
- Bryan's Aspiring Psychology Student Award 2022

## PUBLICATIONS

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- Harriman, H., **Jin, Y.**, Ni, W., Moritz, D., & Sunshine, J. (in prep) *Teaching Geometric Proof with Tech: Pitfalls and Possibilities*
- Zhou, Z., **Jin, Y.**, & Praveena, P. (2024). *[Best Paper Nominee]* Statewise: A Petri Net-Based Visual Editor for Specifying Robotic Systems. *Proceedings of the AAAI Symposium Series*, 4(1), 380-386.  
<https://doi.org/10.1609/aaaiss.v4i1.31820>

## PRESENTATIONS

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- **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.

## SKILLS

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

**Visual Editors:** Figma, Photoshop, Procreate, Blender