

Zuhan Lin

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EDUCATION

University of Illinois at Urbana-Champaign

Expected May 2021

Bachelor of Science in Psychology; Minor in computer science

Current GPA: 3.98/4.0;

Dean's List: Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020

Relevant Coursework:

<i>Attention and Perception</i>	<i>Human Vision</i>	<i>User Interface Design</i>	<i>Statistical Analysis</i>
<i>Human Memory</i>	<i>Database Systems</i>	<i>Data Structures</i>	<i>Deep Learning</i>

RESEARCH EXPERIENCES

Honors Thesis Student

Vision Lab, University of Illinois

May 2020 – Present

- Initiated the Alternating Search Target Project in aim of finishing a bachelor's thesis and applying for departmental distinction.
- Designed a visual search experiment which alternates the search target every fixed number of trials to study human attention, memory and search performance.
- Conducted literature reviews and developed the experiment using **Javascript**, **HTML**, and **GitLab**
- Ran the experiment online through **Pavlovia** and **SONA** and analyzed data with **R**.
- Abstract accepted by **Vision Sciences Society's 2021 conference** and **UIUC's 2021 Undergraduate Research Symposium** for poster presentations.
- In the process of writing the manuscript for publication as the first-author.

Research Assistant

Vision Lab, University of Illinois

April 2019 – Present

- Worked with Vision Lab graduate students to understand human visual search process, and how it is influenced by different factors (target-distractor similarity, distractor heterogeneity, individual differences, search backgrounds, etc.)
- Helped with the setup and cleaning of EEG studies and assisted with collecting visual search data by running **MATLAB** and **Psychopy** scripts.
- Ran participants in a lab setting and attended weekly lab meetings on recent publications and findings in the lab.
- Processed and cleaned autonomous vehicle camera footage to aid safety operators in identifying threats faster and more accurately.

Research Assistant

BEAST lab, University of Illinois

September 2019 – January 2020

- Worked in Dr. Howard Berenbaum's lab to understand the effect of emotion on young adults' ability to integrate multiple relations and inhibit irrelevant stimuli in relational reasoning tasks.
- Developed human images with differing relational complexity (height, width, and facial expression) and running participants with **Psychopy** and **Qualtrics**.
- Processed data routinely with prewritten **R** script and helped develop complete instructions of assigned technical tasks for our research team.
- Attended weekly lab meetings to discuss project paradigms, recent findings and relevant publications.

Research Assistant

Interdisciplinary Lab for Social Development, University of Illinois

August 2018 – May 2019

- Worked under Dr. Nancy McElwain's lab to help understand the role of maternal sensitivity on child behaviors during mother-child interaction.

- Applied **Datavyu** on child behavior coding (positive, negative affect/attention to task/task motivation) on video tapes.
- Communicated individual coding results and finalized scores with mentor and team members on a weekly basis.

RELEVANT COURSE WORK AND PROJECTS

CATME (Team Formation Tool) Interface Redesign August 2020 – December 2020

- Embraced teamwork in a 5-person team with diverse academic background and balanced programming skills.
- Conducted user interviews and contextual inquiries about CATME and random team formation apps.
- Proposed a mobile solution for existing user problems in accordance with “mobile first” principle.
- Generated numerous low-fidelity prototypes using **Figma** and presented recent accomplishments biweekly in studio.
- Worked with teammates to implement the final functional prototype using **Flutter** and **Firestore**.

Rate U of I (Crowd-Sourced Business Review Website) June 2020 – August 2020

- Designed and developed a local business review website for Champaign-Urbana area using **HTML/CSS** and **JavaScript**.
- Brainstormed design ideas and surveyed award-winning websites with teammates to establish project web design.
- Cooperated effectively with the back-end side to produce homepage, login page, and user profile pages.

Working Memory and Visual Search March 2020 – May 2020

- Developed a visual search experiment using **Python** based on paradigms of a recent publication.
- Generated dummy data and performed data analysis based on the statistics reported in the original paper.
- Delegated tasks and coordinated with team members during the development of the experiment.

Champaign-Urbana Bus App March 2018 – May 2018

- Developed an app that shows the bus schedule of user’s current location with **Java** in **Android Studio**.
- Collaborated with front-end developer to support back-end function by utilizing open source APIs.

QUALIFICATION AND SKILLS

- **Programming languages:** Java, Python, C++, html, CSS, JavaScript, MATLAB, R, PsychoJS
- **Languages:** English (Fluent) and Chinese (Native)