

EDUCATION

University of Wisconsin-Madison Madison, WI
 Ph.D. in Psychology Sep 2021 - May 2026 (Expected)
 B.A. in Computer Sciences and Economics · *Comprehensive Honors* · *GPA: 3.64* Sep 2017 - Dec 2020

WORK EXPERIENCE

Austerweil Lab, UW-Madison Department of Psychology Madison, WI
Research Assistant Apr 2018 - Aug 2021

- Worked on research projects in computational cognitive science such as language and memory.
- Duties include software development, data analysis, academic writing, mentoring, etc.

Division of Information Technology (DoIT), UW-Madison Madison, WI
Web Developer Nov 2018 - Jun 2021

- Frontend development for campus-wide applications such as user portal and course enrollment.
- UI, UX, and accessibility improvements for applications and open-source web components.

CS 537: Operating Systems, UW-Madison Madison, WI
Teaching Assistant Jan 2020 - May 2020

- Held regular in-person and virtual office hours on OS knowledge and debugged C issues.
- Provided additional help by answering questions on the online course forum. Proctored exams.

PROJECTS

Follow-up on Predictors of L2 word learning accuracy: A big data investigation *R*

A follow-up work of a regression analysis on second language (L2) learning accuracy using Duolingo data. Testing whether some psycholinguistic word level factors are good predictors of L2 learning. In progress.

A Question Answering (QA) Pipeline *Python, PyTorch*

Surveying transfer learning performances of the BERT pipeline on domain-generic and domain-specific QA datasets. Developing a new QA pipeline using psycholinguistic features. In progress.

Course Search & Enroll (CSE) *Angular, TypeScript, Sass, Elasticsearch, Google Analytics*
<https://git.doit.wisc.edu/adi-ia/course-search-enroll-fe>

An Angular rewrite of the old frontend. Implemented core features in Search, My Courses, and Scheduler tabs. Deployed to production and currently used by over 40,000 UW-Madison students.

How does modern life affect memory retrieval: Analyzing news headlines *Python, PyTorch*
<https://virtual.mathpsych.org/presentation/78>

Using 1919-2019 *New York Times* headlines data, analyzing changes of the frequency, recency, and spacing effects. Also tracked top words and divided them into two sets: fluid and static. Presented virtually at MathPsych 2020 and wrote a senior thesis in Dec 2020. Follow-up work is in progress.

SNAFU: Semantic Network and Fluency Utility *Python, NW.js*
<https://alab.psych.wisc.edu/snafu>

Developed a software tool for psychologists to estimate knowledge representations from memory retrieval data using network analysis. Added core data analyzing features and refactored the main random walk algorithm for semantic network estimation. Published one journal article.

SKILLS

Programming Languages:	Python, JavaScript, Java, C/C++, SQL, R/STATA, MATLAB
Frameworks and Platforms:	Angular, PyTorch, Spring Boot, React
Productivity:	Git, Linux, L ^A T _E X
Natural Languages:	Chinese (Mandarin), English, some Japanese

RECOGNITION

Senior Thesis Scholarship UW-Madison L&S Honors Program
 \$3,000 funding for my senior thesis project. Selection based on the project proposal. May 2020

ACTIVITIES

Mathematical Contest in Modeling Madison, WI
 Received the Meritorious Award for being the top 10% among over 10,000 submissions. Feb 2018

ACM-ICPC North Central North America Regional Contest Verona, WI
 Ranked the 22nd among 207 teams on data structures and algorithms. Nov 2017