**Will Deng**

**(Wuyizhe Deng)**

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**EDUCATION**

**University of Illinois Urbana-Champaign** Champaign, IL **2022-Present**

*Doctor of Philosophy in Cognitive Psychology* (pursuing)

**Furman University** Greenville, SC **2018-2022**

*Bachelor of Science in Psychology, Summa Cum Laude*

*Bachelor of Arts in English*

*Minor in Data Analytics*

Cumulative GPA: 3.92/4.0 | Major GPA: 3.97/4.0

**ACDEMIC ACHIEVEMENTS & AWARDS**

* UIUC Psychology Grad Fellowship **2023**
* Phi Beta Kappa Society Member **2022**
* Brewer Scholarship in Psychology **2022**
* Odell Scholarship **2021**
* Cover Award, Best Talk at Furman Psychology Summer Research Conference **2021**
* Furman Advantage 2021 Research Fellowship **2021**
* Psi Chi International Honor Society in Psychology Member  **2021**
* Sigma Tau Delta InternationalEnglishHonorSociety Member **2020**
* Dr. J. Decherd Guess Scholarship **2020**
* Odell Scholarship **2020**
* Furman Advantage 2020 Research Fellowship **2020**
* Phi Eta Sigma National Honor Society Member **2019**
* Dean’s List (All semesters)

**PUBLICATION**

Deng, W., Rosenblatt, A. K., Talhelm, T., & Putnam, A. L. (2022). People from the U.S. and China think about their personal and collective future differently. *Mem Cogn*. https://doi.org/10.3758/s13421-022-01344-9

Putnam, A. L., Deng, W., & DeSoto, K. A. (2022). Confidence ratings are better predictors of future performance than delayed judgments of learning. *Memory*. https://doi.org/10.1080/09658211.2022.2026973

**POSTERS & PRESENTATIONS**

Deng, W., Federmeier, K., & Beck, D. (2024). Highly memorable images are easier to perceive.

Poster at the 2024 Vision Sciences Society Annual Meeting, St. Pete Beach, Florida.

Deng, W., Federmeier, K., & Beck, D. (2023). Image memorability: Connection between

perceptual and semantic processing. Talk at Cognitive Psychology Brownbag, University of Illinois Urbana-Champaign.

Deng, W., Federmeier, K., & Beck, D. (2023). Image memorability affects ability to perceive low-level visual features. Talk at Language Processing Brownbag, University of Illinois Urbana-Champaign.

Deng, W., Talhelm, T., & Putnam, A. L. (2021). A utopian life in a dystopian country: Valence dissociation between personal and collective future thoughts in the us vs china. Poster presented at the Psychonomic Society 62nd Annual Meeting.

Deng, W., Rosenblatt, L., Talhelm, T., & Putnam, A. L. (2021). A utopian life in a dystopian country: Valence dissociation between personal and collective future thoughts in the us vs china. Talk at the summer research conference of Furman psychology department, Greenville, SC.

Gary, S. R., Deng, W., Greenfield, N., & Putnam, A. L. (2021). The Mandela effect: Four ways to measure collective false memories. Poster presented at the 2021 APS Virtual Convention and Poster Showcase.

Gary, S. R., Deng, W., Greenfield, N., & Putnam, A. L. (2021). The Mandela effect: Four ways to measure collective false memories. Poster presented at the 13th Annual Furman Engaged, Greenville, SC.

**RESEARCH EXPERIENCE**

**UIUC Cognition and Brain Lab** | Dr. Kara Federmeier

*PhD Research*

Number Processing (funded by *Sandia National Laboratories*) **Spring 2024-Present**

* Tested people’s ability to process small numbers (e.g., 0.000036) separately in decimal and scientific notation formats on Prolific

Word Memorability Event-Related Potentials (ERP) **Fall 2023-Present**

* Collected norming data for word memorability on Prolific
* Analyzed the connection between word memorability, neighborhood size, and N400 ERP components

**Collaboration Between UIUC Attention and Perception Lab** | Dr. Diane Beck **&**

**UIUC Cognition and Brain Lab** | Dr. Kara Federmeier

*PhD Research*

Image Memorability Event-Related Potentials (ERP) **Spring 2023-Fall 2023**

* Investigated how the perceptual and semantic processing related to image memorability are reflected in the N300 and N400 ERP components in two experiments
* Coded and administered the experiment on PsychoPy
* Administered EEG recording with the help of research assistants

Image Memorability and Perception **Fall 2022-Spring 2023**

* Investigated how image memorability affects people’s ability to perceive lower features of images
* Created visual stimuli from online database and coded an experiment on PsychoPy with adaptive staircase algorithm and intact-scrambled paradigm
* Administered the study in person with the help of research assistant

**UIUC Human Memory and Cognition Lab** | Dr. Aaron Benjamin

*Thesis Advising*

Human-AI Interaction **Spring 2024-Present**

* Supervised an undergraduate thesis where the student crafted a frequency judgment test with word stimuli to test the effect of AI metacognitive calibration on human-AI integration in a memory-based task

*PhD Research*

Human-AI Interaction **Fall 2022-Fall 2023**

* Examined how AI assistant may improve human performance in a difficult task when AI generates and displays either highly or poorly calibrated metacognitive confidence judgment towards its own advice in two experiments
* Coded experiments using jsPsych and PsychoPy with a grid perception task
* Administered the experiments in person with the help of research assistant

**UIUC Cognitive Decision Making Lab** | Dr. Jared Hotaling

*PhD Research*

Dynamic Decision-Making **Fall 2022-Present**

* Examined dynamic decision-making process by controlling dominant structure and expected utility under the context of economic models and Decision Field Theory
* Coded decision tree experiments using JavaScript, HTML, and CSS
* Administered the experiments in person with the help of research assistants
* Programmed computational models to test the strategies used in the decision-making process

**Furman Body Image and Disordered Eating Prevention Lab** | Dr. Kerstin Blomquist

*Research Assistant*

Supervised Research **Spring 2021**

* Examined the dimensionality of the Eating Loss of Control Scale in a non-clinical sample
* Wrangled data across multiple years for analysis in excel and SPSS
* Collected and summarized past research directly on or related to the Eating Loss of Control Scale to form a manuscript

**Furman University Memory Lab** | Dr. Adam Putnam

*Research Assistant*

Senior Thesis **Fall 2021**

* Extended past lab research on collective future thought
* Focused on finding a mechanism with which people form collective memory
* Wrote and defended a research proposal for the psychology department faculty

Summer Undergraduate Research **Summer 2021**

* Conducted research on collective future thought
* Investigated the generalizability of differences between personal and collective future thoughts in China and the US and tested potential explanations for the differences
* Designed experiments, collected, coded, and analyzed data
* First author on manuscript; revised and resubmitted to *Memory & Cognition*

Supervised Research **Fall 2020**

* Project involved comparing the metacognitive judgment accuracy between judgement of learning (JOL) and retrospective confidence rating for the retrieval of materials in intro psychology textbooks
* Designed and conducted an experiment for the study and analyzed data
* Co-authored a paper with Dr. Putnam, published in *Memory*

Summer Undergraduate Research **Summer 2020**

* Investigated collective false memory, examined characteristics of the Mandela Effect
* Conducted literature review, designed experiments, developed and administered experiments in Qualtrics, and analyzed data
* Learned to code in R and used Rstudio to manipulate and analyze data
* Wrote a manuscript with three other lab members

Supervised Research **Spring 2020**

* Conducted literature review and designed experiment on the Deese-Roediger-McDermott (DRM) Task and the production effect
* Wrote a proposal for the project with intro and method sections

**TEACHING EXPERIENCE**

**Intro to Psychology |** UIUC **Fall 2023**

*Graduate Teaching Assistant (Lecturer)* under Dr. Lisa Travis

* Gave lectures and held office hours
* Graded exams and homework assignments

**Cognitive Psychology |** UIUC **Fall 2022**

*Graduate Teaching Assistant* under Dr. Lili Sahakyan

* Held office hours to answer class-related questions and go over exams
* Administered and graded exams

**Research Methods & Statistics** | Furman University **Spring 2021-Spring 2022**

*Teaching Assistant* under Dr. Cinnamon Stetler, Dr. Erin Hahn, and Dr. Adam Putnam

* Answered general questions regarding the class materials
* Reviewed and edited research papers
* Hosted review sections before exams
* Helped to find relevant materials such as research articles for the class

**Various Classes** | Furman University **Spring & Fall 2019**

*Academic Tutor* at the Center for Academic Success

* Met with students one-on-one to help answer questions regarding class materials and homework and review for exams

**LEADERSHIP & SERVICE**

* Hosted reading groups with undergrad research assistants on ERP literature **Spring 2024**
* Representing UIUC Attention and Perception Lab at Beckman Institute Open House

 **Spring 2023**

* UIUC Department of Psychology Diversity Committee Member **Fall 2022-Spring 2023**
* Psychology/Neuroscience Student Advisory Board Member **Fall 2021- Spring 2022**
* Furman Cultural Life Program Committee Representative **Fall 2021- Spring 2022**
* Association for Psychological Science Student Caucus Campus Representative

 **Fall 2021-Spring 2022**

* Furman University Paladin NewspaperEditor  **Fall 2020- Spring 2022**

**TECHNICAL SKILLS**

* Coding languages: R (moderate to advanced), JavaScript (moderate to advanced), Python (moderate), Java (basic), MATLAB (moderate), LaTeX (basic)
* Software for wrangling and analyzing data: Rstudio, Matlab, Python, SPSS, jamovi, Excel
* Survey building and recruitment: Qualtrics, MTurk, Prolific, SONA, PsychoPy, and Visual Studio Code