

Clementine Zimnicki

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Behavioral graduate researcher studying individual differences in color perception. In a second line of research, I study how the colors used in visualization design affect decision-making.

EDUCATION

UNIVERSITY OF WISCONSIN-MADISON

PH.D., PSYCHOLOGY | MAY 2026

M.A., PSYCHOLOGY | MAY 2022

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

B.S., PSYCHOLOGY | 2020

SKILLS

RESEARCH METHODS

Mixed methods • A/B testing •

Human factors • Survey design

EXPERIMENTAL PROGRAMMING

• JavaScript • HTML • jsPsych • GitHub

• LaTeX • MATLAB • Python

DESIGN SKILLS

Adobe CC • Sketching

COMMUNICATION

Quantitative data visualization

• Scientific writing • Teaching & mentoring writing • Research talks

CONFERENCE TALKS

COGNITIVE SCIENCES SOCIETY | 2025

Clementine Zimnicki, & Timothy T.

Rogers. Triadic comparisons reveal representational motifs in human color perception.

VISION SCIENCES SOCIETY | 2023

Clementine Zimnicki, Danielle A. Szafir, & Karen B. Schloss. Hue variation masks effects of lightness on interpretations of colormap data visualizations.

VISION SCIENCES SOCIETY | 2022

Clementine Zimnicki & Karen B. Schloss.

Squares vs. Maps: effects of configuration on the dark-is-more bias?

PSYCHONOMIC SOCIETY | 2020

Clementine Zimnicki, Emily

Cunningham, & Diane M. Beck.

Spontaneous pre-stimulus alpha activity predicts visual, but not auditory, attention.

EXPERIENCE

GRADUATE RESEARCH SCIENTIST

UNIVERSITY OF WISCONSIN-MADISON | AUGUST 2020 – PRESENT

- Design 10+ experiments on cognition and human visual perception
- Collect data from 1300+ participants at a time leveraging large-scale crowdsourcing (mTurk, CloudResearch, Prolific)
- Perform statistical analyses (mixed-effects models, GLM, hierarchical clustering) and generate data visualizations (ggplot, Adobe Illustrator)
- Communicate findings through posters, writing, and talks
- Teach classes of 500+ undergraduate students covering research methods, introductory psychology, child and adolescent development

R&D INTERN

SANDIA NATIONAL LABORATORIES | JUNE 2024 - PRESENT

- Design experiments studying human visual perception (Python, HTML)
- Design and conduct surveys to assess apprenticeship program success
- Collect data from 300+ participants at a time (mTurk)
- Perform statistical analyses (mixed-effects models) and generate data visualizations (ggplot, ggdist, base R, GIMP)

COMMITTEE CHAIR

UNIVERSITY OF WISCONSIN-MADISON PSYCHOLOGY COLLOQUIUM COMMITTEE | AUGUST 2023 - 2025

- Directed organization of visits for 4+ invited lecturers per year
- Communicated directly and maintained relationships with donors, budgetary committee, & Psychology department chair
- Lead fundraising efforts by applying for and receiving \$2000+ yearly

VISXVISION WORKSHOP ORGANIZER

CONFERENCE LOCATIONS VARY | NOVEMBER 2022 - MAY 2024

- Collaborated with researchers to host conference workshops connecting vision scientists with data visualization researchers
- Managed logistics of event planning, including budget, invited speaker talks, event advertising, day-of event coordination

HONORS & AWARDS

STUDENT RESEARCH GRANTS COMPETITION FUNDS

University of Wisconsin-Madison | 2023

VISION SCIENCES SOCIETY TRAVEL AWARD

Vision Sciences Society | 2023

KENZI VALENTYN VISION RESEARCH GRANT

University of Wisconsin-Madison | 2021

MICHAEL COLES AWARD FOR COGNITIVE NEUROSCIENCE RESEARCH

University of Illinois at Urbana-Champaign | 2019

CARLE NEUROSCIENCE INSTITUTE UNDERGRADUATE RESEARCH AWARD

University of Illinois at Urbana-Champaign | 2019