

# Clementine Zimnicki

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Behavioral graduate researcher studying visual communication. My research aims to discover people's expectations about the meaning of colors in data visualizations, with an ultimate goal of understanding how to make visualizations that are accessible and easy to interpret.

## EDUCATION

### UNIVERSITY OF WISCONSIN-MADISON

PH.D., PSYCHOLOGY | MAY 2025  
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  
Electroencephalography (EEG)

### EXPERIMENTAL PROGRAMMING

javascript  
HTML  
jsPsych  
GitHub  
LaTeX  
MATLAB

### DESIGN SKILLS

Adobe CC  
Sketching

### COMMUNICATION

Quantitative data visualization  
Scientific writing  
Teaching & mentoring writing  
Research talks

## CONFERENCE TALKS

### 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

- Lead 4+ studies on cognition and data visualization
- Collect data from 1300+ participants at a time leveraging large-scale crowdsourcing (mTurk)
- Perform statistical analyses (mixed-effects models, GLM) and generate data visualizations (ggplot, Adobe Illustrator) for talks and publications
- Communicate findings through posters, writing, and talks
- Teach classes of 500+ undergraduate students covering research methods, introductory psychology, child development

### HEAD OF DONOR RELATIONS

UNIVERSITY OF WISCONSIN-MADISON PSYCHOLOGY COLLOQUIUM COMMITTEE | AUGUST 2022 - PRESENT

- Communicate directly and maintain relationships with donors
- Lead fundraising efforts by applying for and receiving \$2000+ yearly

### VISXVISION WORKSHOP ORGANIZER

CONFERENCE LOCATIONS VARY | NOVEMBER 2022 - PRESENT

- Collaborate with other researchers to host conference workshops that connect vision scientists with visualization scientists, and highlight current projects in each field
- Manage logistics of event planning: manage budget, organize invited speaker talks, publicize the event, and day-of event coordination

### UNDERGRADUATE RESEARCH ASSISTANT

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN | SEPTEMBER 2018 - MAY 2020

- Assisted with collecting EEG data from 50+ participants
- Led an EEG study investigating visual perception and attention
- Presented at Society for Psychophysiological Research meeting (2020)

## 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