

# Trisha N. Patel, Ph.D.

## Behavioral Scientist and Data Analyst

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Ph.D. in Cognitive Psychology  
with a concentration in Statistics

## Education

### University of Illinois at Urbana-Champaign

Ph.D. in Psychology – Cognitive Science  
with Statistics Minor

M.A. in Psychology – Cognitive Science

### University of California, Santa Cruz

B.S. in Cognitive Science

B.A. in Data Analysis

## Certification

- Graduate Teaching

## Skills

- Experimental Design
- Data Collection and Analysis
- Dashboard Development
- Qualitative and Quantitative Research Methods

## Programming Languages

- Expert:** R, Python
- Intermediate:** MATLAB, SQL, Shiny
- Beginner:** HTML, JavaScript

## Journal Publications

- Prioritization in visual attention does not work the way you think it does.
- Monitoring the ebb and flow of attention: Does controlling the onset of stimuli during encoding enhance memory?
- Exploring the Contribution of Spatial and Non-Spatial Working Memory to Priming of Pop-Out.
- Forgetting as a consequence and enabler of creative thinking.

## Professional Experience

### Aptima 2021-Present

#### Associate Scientist

- Applying scientific theory and data analysis to design and develop user-centered technological solutions in learning and training programs for the Department of Defense
- Conducted research projects in collaboration with DARPA and branches of the U.S. Military

### Synchrony Financial 2020-2021

#### User Experience Researcher

- Designed, conducted, analyzed, and reported user-centered design research and usability testing for digital properties across various platforms where customers manage finances

### AbbVie Pharmaceutical 2018-2020

#### Statistical Analyst for Health Outcomes Economic Research

- Using real-world data to assess the impact of AbbVie products on payers, providers, and patients
- Working cross functionally, developed new techniques to assess health outcomes for AbbVie products
- Developed and digitized dashboards for AbbVie stakeholders

### National Center for Professional Research and Ethics 2017-2018

#### Project Associate

- Developed an application using R Shiny to identify solutions for common problems occurring in professional settings

### Learning Support Services 2013-2015

#### Tutor Program Coordinator at University of California, Santa Cruz

- Solicited, acquired and managed budget to fund research studies
- Developed the research study to improve student achievement in Math and helped to implement the recommendations

### Academic Research and Teaching 2012-2020

#### Graduate Student at University of Illinois at Urbana-Champaign

- Conducted independent research and implemented computational models for cognitive processing in perception, memory, and attention
- Led lectures, discussion sessions, office hours, and advising sessions for 1-2 classes per semester while pursuing Ph.D.

#### Research Assistant at University of California, Santa Cruz

- Designed, analyzed, and published research addressing the adaptive processes of forgetting

#### Summer Intern at NASA Ames

- Assisted with the design of spacesuits for habitation of Mars
- Exploration technology for human integration research

#### Summer Intern at University of Rochester

- Advanced research in the neurobiology of decision making in rhesus monkeys