

# Zachary A. Caddick

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## Education

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**PhD, Cognitive Psychology** (Expected Summer 2022), *University of Pittsburgh*

**MS, Cognitive Psychology** (2020), *University of Pittsburgh*

**MA, Experimental and Research Psychology** (2016), *San José State University*

**BA, Psychology** (Honors; 2013), *California State University, San Bernardino*

## Experience

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**Graduate Student Researcher**, University of Pittsburgh (August 2017 – Present)

- Full stack design and development of web-based behavioral experiments examining human learning, reasoning, and decision-making
- Published research in top tier peer-reviewed journals (e.g., Cognitive Science) and presented at international conferences (e.g., Cognitive Science Society)
- Created analysis plans and conducted statistical analyses
- Mentored undergraduates by guiding and tracking progress on research projects, reviewing work, and leading learning activities (e.g., reading journal articles, lessons on statistics and programming)
- Selected to work on collaborative grant with American Board of Internal Medicine studying the optimal way to both teach and assess medical knowledge for physicians, resulting in 4 articles in a special issue journal publication (in press)
- Received competitive dissertation grant to research the best way to teach and learn about voting systems
- Member of the Learning Research and Development Center's (LRDC) Committee on Diversity, Inclusion, and Equity (CODIE)
- Member of the Psychology Committee on Equity, Inclusion, and Community (PEIC) and the sub-committee Psychology Partnership for Undergraduate and Graduate Students (PUGS)

**Teaching Fellow**, University of Pittsburgh (August 2018 – April 2020)

- Designed and refined lesson plans for teaching research methodology and cognitive psychology
- Supervised research design, statistical analyses, and written reports for student research projects
- Awarded a competitive graduate student teaching award for creating an ethos of engagement, showing a commitment to diversity and inclusion, and instilling a passion for learning in students

**Board of Directors**, San José State University Research Foundation (August 2015 – June 2017)

- Served as the student body representative
- Sat on three boards: 1) Board of Directors, 2) Audit Committee, and 3) Sponsored Programs Advisory Committee
- Assisted in furthering SJSU's educational and research goals by examining funding for new and ongoing programs, resource allocation, and future educational aspirations

**Research Associate**, NASA Ames Research Center/San José State University Research Foundation (March 2014 – July 2017)

- Supported research projects within NASA ARC's Human Systems Integration Division
- Primarily worked in two labs: 1) Fatigue Countermeasures Laboratory, which studies sleep, fatigue, and cognitive functioning and 2) Aerospace Cognitive Engineering (ACE) group, researching an intersection between human-computer interaction, learning, training, and cognition
- Provided data clean up and statistical analysis, research writing, assisted data collection, created novel behavioral tasks/measures, and presented results at conferences

## Skills & Abilities

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*Technical Skills:* R, Python, JavaScript, SPSS, Web Development (Google App Engine, Google Analytics, HTML/CSS), Mechanical Turk, Adobe Photoshop

*Research Skills:* quantitative analysis (regression, mixed effects models, ANOVA, SEM, EFA/CFA, discriminant analysis, non-parametric tests), qualitative analysis (developing coding systems, inter-rater reliability procedures), research design and methodology, causal inference, running participants, measure/task creation, psychometrics, survey design