Zachary A. Caddick, PhD

✉ caddickzac@gmail.com   🔗 zacharyacaddick
☎ 909-921-4248   🏠 zacharycaddick.com

Education

PhD, Cognitive Psychology (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

Graduate Student Researcher, University of Pittsburgh (August 2017 – December 2022)
- Awarded competitive dissertation grant to examine voters' perceptions of the fairness of different voting processes in 4 studies pre-registered on OSF
- Developed novel behavioral measure in *R* using a statistical framework to simulate voter preferences along multiple dimensions
- Selected to work on collaborative grant with American Board of Internal Medicine to conduct a literature review on the optimal way to teach and assess medical knowledge for physicians, which led to a special issue journal publication on the topic of our review (5 articles, in press) and led to evidence-based policy reforms for physician certification
- Designed and completed full-stack development (JavaScript, Python, HTML/CSS) of web-based behavioral experiments examining human learning, reasoning, and decision-making
- Published research in top tier peer-reviewed journals (e.g., Cognitive Science), presented and served as reviewer at international conferences (e.g., Cognitive Science Society, Psychonomic Society)
- Service to department and university as member of Committee on Diversity, Inclusion, and Equity (CODIE), Psychology Committee on Equity, Inclusion, and Community (PEIC), Psychology Partnership for Undergraduate and Graduate Students (PUGS)
- Mentored undergraduates by guiding and tracking progress on research projects, reviewing work, and leading development activities (e.g., reading journal articles, lessons on statistics and programming)

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 two labs (Fatigue Countermeasures Laboratory and Aerospace Cognitive Engineering) focused on studies of fatigue's impact on cognitive functioning, human-computer interaction, and human factors research
- Collaborated in all phases of research process: IRB approval, creation of novel behavioral tasks/measures, data collection, statistical analysis, drafting peer-reviewed technical reports, presenting to peers in the broader scientific community, publishing peer-reviewed articles

Skills & Abilities

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

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