Zachary A. Caddick, PhD

Alexandria, Virginia • 909-921-4248 • caddickzac@gmail.com • linkedin.com/in/zacharyacaddick

Skills

- **Technical skills**: R (tidyverse), Python (NumPy, Pandas), JavaScript, SPSS, HTML/CSS, Google App Engine, Google Analytics, Microsoft Office Suite, G Suite
- **Research skills**: quantitative analysis, inferential statistics, qualitative analysis, research design, survey design, psychometrics, measure & task creation, causal inference

Experience

National Science Foundation • *AAAS Science & Tech. Fellow | Program Evaluation* • 09/2024 - Present

- Selected for the AAAS Science & Technology Policy Fellowship to apply scientific expertise in policy evaluation within NSF's Technology, Innovation, and Partnerships (TIP) Directorate.
- Conduct program evaluation and assessment for the TIP Directorate's Engine Program, supporting evidence-based decision-making.
- Design frameworks and methodologies to evaluate the impact of programs advancing U.S. technology, innovation, and competitiveness.
- Collaborate with interdisciplinary teams to analyze data, assess outcomes, and provide actionable recommendations.
- fSupport science and technology initiatives that spur innovation and strategic partnerships

Oregon Health & Science University • *Postdoctoral Scholar* • 01/2024 - 06/2024

- Lead in-lab sleep studies focusing on the intersection of sleep patterns with cardiovascular health, hormonal balance, and cognitive performance.
- Design and execute a study on the effects of insufficient sleep on susceptibility to misinformation, integrating digital platforms to broaden research impact.
- Data analysis to provide actionable insights that influence public health policies.
- Develop internal tools to automate cognitive performance and circadian rhythm data processing, enhancing efficiency and accuracy.
- Implement training and assessment frameworks for lab skill development.

University of Pittsburgh • *Graduate Student Researcher and Teaching Fellow* • 08/2017 - 12/2022

- Secured $24,456 in funding for a dissertation grant to study voter perceptions of fairness in voting processes across four pre-registered studies on OSF
- Developed novel behavioral measures of human behavior
- Led a literature review in collaboration with the American Board of Internal Medicine, culminating in a special journal issue (5 articles) and evidence-based policy reforms for physician certification
- Engineered and implemented web-based behavioral experiments using JavaScript, Python, and HTML/CSS, focusing on human learning, reasoning, and decision-making.
- Contributed to top-tier journals (e.g., Cognitive Science), presented at, and reviewed for major international conferences (Cognitive Science Society, Psychonomic Society).
- Mentored undergraduates in research methodology and cognitive psychology, overseeing project progress, refining lesson plans, and providing instruction in statistical analysis and programming

NASA Ames Research Center/San José State University Research Foundation • *Research Associate* • 03/2014 - 07/2017

- Supported research projects within two labs (Fatigue Countermeasures Laboratory and Aerospace Cognitive Engineering) focused on 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

Education

University of Pittsburgh • **PhD, Cognitive Psychology** (2022)
University of Pittsburgh • **MS, Cognitive Psychology** (2020)
San José State University • **MA, Experimental and Research Psychology** (2016)
California State University, San Bernardino • **BA, Psychology** (Honors; 2013)

Last modified: 1/24/2025