Craig Jeffrey Robb Sewall, PhD

925-699-4502 | cjsewall9@gmail.com | craigsewall.com

Professional Summary

- Experienced quantitative social scientist proficient in executing complex research projects from end-to-end: study design, data collection/cleaning/analyzing, and disseminating findings
- Proven record of producing high-quality scientific insights owing to unique combination of advanced data analysis skills and behavioral health subject-matter expertise
- Collaboratively authored 40+ scientific publications and presentations (18 as team leader)

Skills

- Quantitative research
- Data analysis
- Machine learning
- Data mining and validation
- Scientific writing

- Interpersonal skills
- Study design
- Project management
- Statistical programming (R; Stata; Mplus)
- Psychology domain expertise

Research Experience

Senior Research Scientist, *University of Pittsburgh School of Medicine, Pittsburgh, PA (June 2021 – present)*
- Plan and execute all aspects of 5+ complex research studies using multiple methods
- Develop and evaluate inferential and predictive models using foundational (e.g., regression; ANOVA) and advanced (e.g., structural equation modeling; machine learning) techniques
- Selected major projects:
  - Earned highly competitive national research service award fellowship from NIMH (total award = $142,000) to lead study leveraging mobile sensor data and machine learning to develop personalized models of suicide risk
    - Primary data collection, cleaning, compiling, and analyzing complex multi-modal data (i.e., sensor data, clinical outcomes, self-reports)
  - Applied machine learning algorithms (e.g., random forests, elastic net) to longitudinal mobile sensor dataset to predict suicidal thoughts

Research Scientist, *University of Pittsburgh School of Social Work, Pittsburgh, PA (Aug. 2017 – May 2021)*
- Led all aspects of a 4-year multi-method research project on digital well-being
- Collected, wrangled, visualized, and analyzed data using advanced statistical methods (Bayesian mixed-effects models, causal inference models)
- Led study with cross-functional team of clinical scientists, physicians, statisticians, and data managers to examine impact of social functioning on suicidality among youth

Education

PhD (Social Work), *University of Pittsburgh School of Social Work, Pittsburgh, PA (April 2021)*
Master of Social Work, *University of Pittsburgh School of Social Work, Pittsburgh, PA (August 2012)*
BA (Sociology), *Westmont College, Santa Barbara, CA (May 2009)*