Yi-Shin Sheu, Ph.D.

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PROFESSIONAL SUMMARY

PhD-level Cognitive Psychologist with a proven track record in experimental design, statistical analysis, and data-driven decision-making. Proficient in utilizing complex data from Electronic Medical Records (EMR) to derive meaningful insights and drive evidence-based improvements in patient care within the domains of epidemiology and healthcare services & outcome research.

EDUCATION

Ph.D. in Psychological & Brain Sciences, Johns Hopkins University, Baltimore, MD (Sep 2011 - Aug 2015)

TECHNICAL SKILLS

Statistical Analysis: Data cleaning, sampling methods, multivariate analysis, regression, significance testing, experimental & quasi-experimental design methods, data visualization, interpretation and communication.
Programming: Python (Pandas, SciPy, Matplotlib, NumPy, Seaborn, Scikit Learn), SQL, SPSS, MATLAB.

PROFESSIONAL EXPERIENCE

Research Data Analyst II, Kaiser Permanente, Rockville MD (March 2022 – Present)

- Offer extensive analytic and biostatistical support for 6 physician-led research studies, utilizing EMR data to gain valuable insights and identify areas for improving patient outcomes and quality of care.
- Collaborate closely with research scientists, operational staff, and clinical teams to address data issues and provide relevant statistics in support of Patient Care Program success.
- Oversee all phases of SQL/Python/SAS analytical programming in physician-led research, including data management, quality control, automation, and data reporting for manuscript preparation.

Postdoctoral Researcher, Johns Hopkins University, Baltimore, MD (October 2015 – October 2021)

- Collaborated on conceptualization, experimental design, and statistical analysis plans for 2 grant proposals, resulting in the successful funding of 2 NIH RO1 grants totaling $7 million for 5-year human research studies.
- Led and executed 5 cognitive research projects on cerebellar function, resulting in 5 peer-reviewed articles that highlight the cerebellum's role in forward-model computation for sequence learning.
- Mentored graduate research assistants, fostering their growth in research idea development, experimental design, and data analysis & interpretation.

Graduate Researcher, Johns Hopkins University, Baltimore, MD (September 2009 – August 2015)

- Led human cognition research on neural mechanisms of cognitive control, resulting in 2 impactful peer-reviewed articles advancing our understanding of higher cognition implemented by the brain.
- Effectively instructed undergraduate courses in Research Methods, Statistics, and Cognitive Control, while providing personalized mentorship to 20+ students on their individual class projects.

Research Specialist, McLean Hospital, Belmont, MA (June 2006 – April 2009)

- Assisted data analysis to assess structural changes in the developing brain related to childhood stressors, leading to the publication of 4 peer-reviewed articles and 2 book chapters on the neurobiological effects of childhood adversity and trauma.
- Effectively managed a brain imaging database of 250+ human participants, optimizing data processing and analysis pipelines to significantly boost lab productivity.