

Yi-Shin Sheu, Ph.D.

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PROFESSIONAL SUMMARY

Doctoral-level researcher with 12+ years of experience in designing and executing human cognitive experiments and epidemiological projects. Expert in synthesizing and analyzing real-world, human-computer interaction, and neuroscientific data for modeling. Proficient in defining and operationalizing user behavioral metrics for research and product development. Skilled in delivering data-driven insights for informed decision-making, with a strong track record in research collaboration and publication.

PROFESSIONAL EXPERIENCE

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

- Lead analytic and biostatistical efforts for the physician scholar program on 10 epidemiological and HEOR studies. Contribute to all research stages, including study design, cohort assembly, statistical planning, database querying, modeling, and manuscript preparation. Co-author 3 peer-reviewed articles and 7 abstracts, with a 25% improvement in project completion efficiency within 2 years.
- Apply advanced data preprocessing methods, statistical modeling, and data visualization techniques using Python libraries to analyze diverse real-world datasets, including electronic health records (EHRs), claims, pharmacy data, and registries. Develop intuitive visual representations to illustrate trends and outcomes, informing strategic research and business decisions.
- Generate insights to support healthcare decisions by consulting on the design and execution of epidemiological and HEOR studies for in-house physicians. Perform extensive literature reviews and transform raw data into analyzable formats to inform strategic decisions

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

- Collaborated on conceptualizing and designing experiments to investigate human higher cognitive functions, utilizing MRI, EEG, and physio-psychological experiments. Developed methodologies to understand cognitive processes, which can be applicable to user experience research.
- Led multiple research projects investigating cognitive processes related to memory, language learning, and cognitive control, resulting in the publication of 5 peer-reviewed articles. Contributions to understanding human cognition can inform methodologies for user experience research.
- Mentored 8+ graduate students and research assistants, fostering a collaborative environment focused on advancing knowledge in cognitive science.

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 that advanced understanding of higher cognitive functions in the brain.
- Instructed undergraduate courses in Research Methods, Statistics, and Cognitive Control. Provided personalized mentorship to 20+ students on their individual class projects.

EDUCATION

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

TECHNICAL SKILLS

Data Science & Research: literature review; study design (observational, experimental); statistical analysis (time-series, regression, hypothesis testing); data visualization and communication.

Programming: Python (Pandas, SciPy, Matplotlib, NumPy, Seaborn, Scikit Learn), SQL, SPSS, SAS