

Yi-Shin Sheu, Ph.D.

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PROFESSIONAL SUMMARY

Doctoral-level data analyst with 5+ years of experience in healthcare data analytics and health services research. Expert in synthesizing data from diverse sources, developing business and reporting solutions, and delivering actionable insights for strategic decision-making. Proficient in SQL, Python, and advanced statistical modeling, with strong hands-on experience in data visualization and claims data analysis.

PROFESSIONAL EXPERIENCE

Research Data Analyst II, Mid-Atlantic Permanente Medical Group, Rockville MD (Mar 2022 - Present)

- Lead analytic and biostatistical efforts for 10+ observational and health services studies within the Physician Scholar Program. Responsible for study design, analysis planning, cohort and data assembly on target variables, statistical modeling, and result interpretation and reporting. In partnership with 6 physicians, co-developed and submitted 8 manuscripts and presented at 9 conferences, consistently meeting project metrics and objectives.
- Apply advanced data preprocessing methods, statistical modeling, and data visualization techniques using Python libraries to analyze real-world datasets, including electronic health records, claims, pharmacy data, and registries. Develop intuitive visual representations of real-world data to illustrate trends and outcomes, informing strategic business decisions.
- Generate insights from HEOR and epidemiological studies to inform healthcare decision-making. Offer consultation on designing and conducting epidemiological studies for in-house physicians, including devising statistical plans and transforming raw data into analytical formats.

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

- Collaborated on research idea conceptualization, experiment design, and statistical analysis for 2 RO1 grant applications, helping secure over \$7 million in total funding for two 5-year NIMH and NIAAA grants.
- Spearheaded 5+ research projects on cerebellar function, resulting in 5 peer-reviewed articles published in top-tier journals on cerebellar function in learning and memory.
- Mentored 8+ graduate students and research assistants, guiding their successful pursuit of careers in research and advanced degrees.

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, while providing 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: statistical analysis (time-series, regression, hypothesis testing, survival analysis); claims data analysis, data extraction and cleaning, data visualization and reporting, project management
Programming: Python (Pandas, SciPy, Matplotlib, NumPy, Seaborn, Scikit Learn), SQL, R, SAS