Yi-Shin Sheu, Ph.D.

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PROFESSIONAL SUMMARY

Health Data Scientist with a strong track record in real-world data analytics. Experienced in utilizing EHRs for robust findings and publications, adept in crafting research protocols, statistical analyses, and delivering data-driven insights for informed decision-making.

EDUCATION

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

TECHNICAL SKILLS

Data Science & Research: literature review; research design (observational, experimental, quasi-experimental); statistical analysis (time-series, regression, hypothesis testing); data visualization and communication, manuscript writing, conference presentation.
Programming: Python (Pandas, SciPy, Matplotlib, NumPy, Seaborn, Scikit Learn), SQL, SPSS, MATLAB.

PROFESSIONAL EXPERIENCE

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

- Collaborated with 6 physicians and 4 research scientists spanning diverse specialties, actively contributing to 8 retrospective research projects and 2 HEOR projects. Instrumental in achieving a notable 25% improvement in research project completion efficiency and ensuring timely delivery of results for ongoing projects.
- Analyzed EPIC data from ~800,000 member records using advanced statistical models such as logistic regression, interrupted time series, and generalized estimating equations. Contributed crucial insights leading to the co-authorship of 2 published research papers and 4 abstracts focusing on population health and health services research.
- Implemented cutting-edge data streaming techniques with Python, resulting in a 50% reduction in research project time costs while maintaining high accuracy and quality standards.
- Identified and corrected a 40% underestimation issue in the previous dashboard, ensuring accurate patient pathway counts. This correction positively influences leadership's assessment of the pathway.

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

- Collaborated on 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 contributions to cognitive sequential learning.
- Mentored 8+ graduate students and research assistants, guiding their successful pursuit of careers in research and/or 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 our 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.