Tian Qiu

Contact

Preferred Name: Sky Qiu

Cell: (206) 787-0462

Email: sky.qiu@berkeley.edu

Education

University of California, Berkeley   **Aug 2021 - Present**
MA/PhD in Biostatistics

University of Washington, Seattle   **Aug 2017 - Jun 2021**
B.S. in Applied and Computational Mathematical Sciences
Emphasis: Data Science and Statistics (Departmental Honors)
    Honors Thesis: *Risk Factors for Hospital Readmission in Patients with Type 2 Diabetes using Survival Analysis Methods*
    Thesis Advisor: Elizabeth A. Thompson, PhD

Research Experience

Center for Targeted Machine Learning and Causal Inference   **Aug 2022 - Present**
Graduate Student Researcher
Supervisor: Alan E. Hubbard, PhD
- Project: tlverse (Targeted Learning software system in R) development.

University of California, Berkeley   **Aug 2022 - Present**
Graduate Student Researcher
Supervisor: Stefano M. Bertozzi, MD, PhD
- Project: studying the effect of medication adherence on COVID-19 severity and mortality among patients with chronic conditions.

Kaiser Permanente, Division of Research   **May - Aug 2022**
Research Intern
Supervisor: Romain S. Neugebauer, PhD
- Supported the implementation of advanced causal inference analyses in comparative effectiveness studies.
- Lead the development of an automated analytic workflow using the R statistical programming language to generate and report basic summary statistics from large longitudinal data sets extracted from healthcare databases (e.g. electronic health records).
- The workflow was tested using real-world comparative effectiveness research studies to demonstrate its applicability, flexibility, and relevance to identify data problems that need correcting and to inform discussions between study investigators for guiding subsequent causal inference analyses.

University of California, San Francisco　　　　　　　　**Jan 2022 - Present**
Student Researcher
Supervisors: Jacqueline Leung, MD, MPH and Laura Sands, PhD
- Department of Anesthesia and Perioperative Care

Najafian Lab: Pathobiology of Kidney Diseases　　　　**Sep 2020 - Jan 2021**
Student Researcher
Supervisor: Behzad Najafian, MD
- Project: electron microscopy image segmentation using Deep Learning

Washington Experimental Mathematics Lab　　　　　　**Mar - Jun 2020**
Student Researcher
Supervisors: Jake Levinson, PhD and Jarod Alper, PhD
- Investigated the impact of varying contacts among age groups on the number of infected individuals by applying contact matrices to an age-structured extended SEIR model.
- Evaluated the effect of social-distancing on the disease spread in King County, Washington.

Teaching Experience

Teaching Assistant/Graduate Student Instructor
University of California, Berkeley
- PB HLTH 241: Intermediate Biostatistics for Public Health (Spring 2022)
- PB HLTH 142: Introduction to Probability and Statistics in Biology and Public Health (Fall 2021)

University of Washington, Seattle
- INFO 180: Introduction to Data Science (Fall 2020)

Grader
University of Washington, Seattle
- STAT 311: Elements of Statistical Methods (Spring 2021)
- STAT 311: Elements of Statistical Methods (Winter 2021)

Honors and Awards

Phi Beta Kappa Honor Society　　　　　　　　　　　　　　**2021**

University of Washington Datathon: Best Machine Learning Model Award　　**2020**

Extracurricular Activities

Vice President, Biostatistics Graduate Student Association　　**2021 - Present**

Violinist, University of Washington Symphony Orchestra　　**2018 - 2019**

Volunteer Statistical Consultant, StatCom　　　　　　　　**2018 - 2021**