

Tian Qiu

Contact

Preferred Name: Sky

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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.

Publications

In preparation

S. Qiu, A. E. Hubbard, J. P. Gutiérrez, I. D. Ascencio-Montiel, S. M. Bertozzi. The effect of metformin adherence on COVID-19 mortality in Mexico. 2023+

Invited Talks

S. Qiu, S. M. Bertozzi. The effect of metformin adherence on COVID-19 mortality in Mexico. *Develop Engineering Research and Practice Seminar*, UC Berkeley, April 2023

Teaching Experience

Teaching Assistant/Graduate Student Instructor

University of California, Berkeley

- PB HLTH 241: Intermediate Biostatistics for Public Health Spring 2022
- PB HLTH 142: Intro to Probability and Stats 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

<i>Vice President</i> , Biostatistics Graduate Student Association	2021 - Present
<i>Violinist</i> , University of Washington Symphony Orchestra	2018 - 2019
<i>Volunteer Statistical Consultant</i> , StatCom	2018 - 2021