Sibo Zhou

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Education

Brown University — September 2024 – May 2026
Sc.M. in Data Science — Providence, RI
Overall GPA: 3.93

University of Southern California — August 2020 – May 2024
B.S. in Applied and Computational Mathematics — Los Angeles, CA
B.S. in Economics and Data Science
B.A. in Religious Studies
B.A. in Global Studies
Overall GPA: 3.86

Working Papers

Education selectively improves TB and HIV knowledge: causal evidence from Lesotho
Jingwei Huang, **Sibo Zhou**. || authors listed alphabetically.

The Natural History of Lymphomatosis Cerebri: An Analytical Assessment
Laura Schroeder*, **Sibo Zhou***, Elizabeth Xu*, Shiva Gautam, Eric T. Wong. || *equal contribution.
American Neurological Association Annual Meeting, 2026; presenting author: Sibo Zhou.

The Natural History of Glioblastoma in Multiple Sclerosis Patients
Nazim Khan*, Rohan Cherukuru*, **Sibo Zhou**, Hsien-Chung Chen, Clark C Chen, Jonathan Cahill, Shiva Gautam, Eric T. Wong.

Diagnostic Considerations for Neurolymphomatosis: A Natural History Analysis
Francesca Rothell*, Mary Ann Nguyen*, Elizabeth Xu, Quan Ho, **Sibo Zhou**, Shiva Gautam, Eric T. Wong.

Research Experience

Haas School of Business, University of California, Berkeley — Berkeley, CA
Predoctoral Scholar — July 2026 – Present

The Office of Research and Development, U.S. Department of Veterans Affairs — Palo Alto, CA
Research Statistician — August 2026 – Present
Faculty advisor for both appointments: Prof. David Chan

Projects: (1/2) *Are Guidelines Worth Following? Decision-Making Under Incomplete Evidence.*
(2/2) *Provider decision time and patient outcomes.*
Tentative paper titles.

Contribution: Prepared and analyzed VA health care data in Stata and R. Developed reproducible workflows for data cleaning, econometric estimation, robustness and sensitivity checks, and manuscript tables and figures to support research on physician treatment decisions, decision time, and patient outcomes.

The Warren Alpert Medical School, Brown University — Providence, RI
Clinical Research Collaborator — January 2026 – Present
Faculty advisor: Prof. Eric T. Wong

Papers: (1/2) *The Natural History of Lymphomatosis Cerebri: An Analytical Assessment.*
(2/2) *The Natural History of Glioblastoma in Multiple Sclerosis Patients.*
Authorship and research summaries listed under Working Papers.

Contribution: Built analytic datasets, performed survival and comparative analyses, and prepared tables and figures for the two manuscripts. Contributed to evidence synthesis and drafted and revised manuscript sections, abstracts, and presentation materials.

Watson School of International and Public Affairs, Brown University Providence, RI
Research Assistant November 2024 – May 2026
Faculty advisor: Prof. Robert Blair

Project: *Violence in the Amazon.*

Contribution: Integrated election results, campaign donations, crime statistics, and environmental-violation records in R and Stata. Applied a regression discontinuity design to study the effect of anti-climate political leadership on environmental crime.

Department of Economics, University of Southern California Los Angeles, CA
Research Assistant October 2023 – May 2024
Faculty advisor: Prof. Yuehao Bai

Project: Stata package for replication and application of *Inference in Experiments with Matched Pairs* (Bai, Romano, and Shaikh, 2022).

Contribution: Implemented data preparation, matching, and statistical inference routines in Stata, including t-tests, randomization, and studentization, in a reusable package.

Industry Experience

Rocket Mortgage, ***Data Science Intern***, Detroit, MI May 2025 – August 2025

Built a client-segmentation framework on AWS with a PySpark data pipeline, clustering methods, and an XGBoost model to estimate clients' propensity to use chat services.

Delivered the model for a channel accounting for over 30% of new clients, with a projected reduction in channel-wide chat wait times of over 25%.

Ernst & Young, ***Actuarial Consulting Intern***, Beijing, China May 2023 – August 2023

Developed and refined life actuarial models in Excel and EY-eProduct for China Life and BOB-Cardif Life. Standardized over 50 premium-rate tables and resolved over 10 technical issues in the actuarial modeling platform.

Teaching Assistantship

Brown University
DATA 2020: Statistical Learning Spring 2026
DATA 1050: Data Engineering Fall 2025
IAPA 1500D: Research Design and Methods Spring 2025

University of Southern California
DSCI 250: Introduction to Data Science Fall 2023

Honors and Awards

USC Renaissance Scholar Prize Winner, USD 10,000 2024
USC Dornsife Scholar Award, USD 10,000 2024
Faith In Him Foundation Scholarship, USD 5,000 2023
Bitzer Family Scholarship, USD 4,000 2022
Carrie D. and C.J. Walker Endowed Scholarship, USD 1,125 2022, 2023
Carrie D. and C.J. Walker Travel Award, USD 1,125 2023
USC SOAR Research Funding, USD 1,000 2023
Theta Alpha Kappa 2023

Technical Skills

Programming: Python, R, Stata, C++, SQL.
Statistics and Machine Learning: Causal inference, regression discontinuity, survival analysis, statistical modeling.
Tools: PySpark, pandas, scikit-learn, AWS (SageMaker, S3, Athena), Git.