

ZHE ZHAO

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RESEARCH STATEMENT

My research interests include applying statistical methods on analysis of large-scale electronic health Records data, Bayesian methods on astronomy and computational algorithms in statistical inference.

EDUCATION

2019 – 2021 (expected), University of Michigan
M.S. in Applied Statistics

2014-2018, Boston University
B.A. in Statistics
B.A. in Economics

AWARDS

Fall 2016 – Spring 2018, Undergraduate (Boston University)
Dean's List (3.5 GPA or higher, all semesters)

PUBLICATION

Journal Articles

Tapper EB, Aberasturi D, Zhao Z, Hsu C-Y, Parikh ND. Outcomes after hepatic encephalopathy in population-based cohorts of patients with cirrhosis. *Aliment Pharmacol Ther.* 2020; **51**: 1397– 1405. [\[AP&T\]](#)

ACADEMIC EXPERIENCE

2020 – present, University of Michigan (Michigan, USA)
Data Analyst, Jan 2020 – present

Working on understanding the outcomes for patients with decompensated cirrhosis or at risk for hepatic encephalopathy with Dr. Elliot Tapper. Developing and applying statistical approaches for analysis for large-scale Medicare data by using R and SAS.

Research Assistant, May 2020 – present
Implementing Bayesian neural networks for astronomical catalogs from images and optimizing the speed of models by using python under pytorch-lightning framework. Developing hyperparameter training using python under Optuna framework. The project is supervised by Dr. Jeffrey Regier.

WORK EXPERIENCE

2019, China House (Beijing, China)

Course Assistant, Team Leader, Jan 2019 – June 2019

Helped undergraduate and high school student conduct researches on Sino-African relations. Primarily responsible for organizing interview with Chinese workers in Africa, leading group discussions, teaching basic data analysis skills and collecting interview data.

2018, Ignite Health (previously Affect Health, Boston, USA)*Data Analyst Internship, July 2018 – Dec 2018*

Worked on understanding risk-adjustment in quality metrics adopted by MassHealth for healthcare providers. Researched and completed a report on mobile health market using web crawling and data visualization with python and R. Collected and organized data on potential donors for fundraising campaign.

ADDITIONAL SKILLS**Technical Skills**

R (data.table, tidyr, R-markdown), Python (PyTorch, PyTorch-Lightning, Numpy), SAS, Stata, LaTex and Git (Github, Gitlab). Working experience with Anaconda.

Soft Skills

Strong interpersonal skill, quick learner, problem solver, and team-player

Language

Mandarin, native; English, fluent