


# ZHUOHUI LIANG

 [zl2974@columbia.edu](mailto:zl2974@columbia.edu)

 6464963283

 [linkedin.com/in/zhuohui-liang-123108203](https://www.linkedin.com/in/zhuohui-liang-123108203)

 <https://zl2974.github.io>

## Summary

- \* Outstanding academic performance in Biostatistics with GPA 4.0;
- \* Proficient in statistical language in R and Python and practice in multiple projects;
- \* Solid health and medical knowledges backgrounds provides easy communicating statistics result to practitioners and etc.

## Experience

### Intern

National Health Development and Research Center of China Health Committee

Jun 2019 - Jun 2020 (1 year 1 month)

- Provide advice on sampling method, model selection, and result interpretation as well as data visualization.
- Estimate national health expenditure in 2019, and analyze the distribution of different demographic characteristics, such as age and gender, to optimize healthcare resource allocation.
- Build ICD-10 auto-coding and data format auto-standardizing in Python for annual health accounting, improving working efficiency, data accuracy, and integrity.
- Conduct a literature review on methods for detecting healthcare fraud using data mining; provide data support for a pilot feasibility project.
- Participated in data visualization of healthcare indicators and healthcare access for an unpublished review of 10 years of healthcare reform in China.
- Assisted with study design and data processing in Python for two confidential projects

### Intern

Jinan Center for Disease Control and Prevention

Mar 2019 - May 2019 (3 months)

- Completed a three-month rotation with various departments, including Chronic Diseases Control, Occupation Disease Control, and Infectious Disease Control Centers.
- Monitored survival data in patients who presented with emergency cases and chronic diseases in Jinan using R programming, following established procedures

### Intern

Center of Health Data Science at Shandong University

Jun 2018 - Nov 2018 (6 months)

- Conducted research on covariates adjustment and single nucleotide polymorphisms (SNPs) identification in the Genome-wide Association Study (GWAS).
- Reviewed more than 200 published articles on cancer and cardiovascular diseases, categorized them based on studied traits.
- Designed and constructed a database for all the articles, documenting specific SNPs, statistical methods, adjusted covariates, interval validation results, and other parameters of each study.

## Education



**Columbia University in the City of New York**

Master of Science - MS, Biostatistics

2020 - 2022



**Shandong University**

Bachelor's degree, Public Health

2014 - 2019

Relevant Coursework: Biostatistics, Advanced Mathematics (including Single and Multivariable Calculus, Probability Theory), Linear Algebra, SAS programming, Statistics With R, Epidemiology, Health Economics, Health Management, Medical Insurance Management, Social Health

## Skills

Research • Python (Programming Language) • R (Programming Language) • Statistical Data Analysis