ZHUOHUI LIANG

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| Linkdin | *Zhuohui Liang* |

EDUCATION:

Columbia University   New York City, U.S.
Major : Master Candidate in Biostatistics   09/2020-PRESENT
Shandong University   Jinan, China
Major: Bachelor of Public Health   09/2014-06/2019

WORK EXPERIENCE:

- **National Health Development and Research Center of China Health Committee**   Beijing, China
  Intern   06/2019-06/2020
  - Provide advice on sampling method, model selection, and result interpretation as well as data visualization on project of national health accounting, national COVID-19's economic impact and expense, healthcare fraud detection and *Healthcare Reform Review*.
  - Provide design, and build ICD-10 auto-coding and format auto-standarding module for health accounting data cleansing with python
  - Estimate national health expenditure in 2019, and analyze the distribution of different demographic characteristics, such as age and gender, to optimize healthcare resource allocation.
- **Jinan Center for Disease Control and Prevention**   Jinan, China
  Intern   03/2019-05/2019
  - 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.

RESEARCH EXPERIENCE:

- **Case Study: eHealth Resource Allocation in Shandong Province**   Jinan, China
  Lead Researcher; Advisor: Prof. Jiajia Li   01/2019-06/2019
  - Scrape, cleansing and analyzing eHealth allocation in Shandong
  - Identified the spillover effects of eHealth services on health care inequity; provided ideas and strategies to address healthcare disparities using widely accessible eHealth resources.
- **Project: Effect of Insurance Plans on Catastrophic Healthcare Expenditures**   Jinan, China
  Lead Researcher; Advisor: Prof. Jiajia Li   10/2018-06/2019
  - Collected geographical locations with Google Maps API and matched with insurance coverage of each plan as an instrumental variable for addressing the endogeneity introduced by insurance selection bias.
  - Performed regression analysis with instrumental variables and identified China's new health insurance program has decreased the odds of catastrophic health expenditures but has failed to control total health expenditures.
- **Mapping Health: Tracking Population Health in Shandong Province, China**   Jinan, China
  Research Assistant; Advisor: Dr. Fuzhong Xue   06/2018-11/2018
  - Refined medical information from more than 161 handbooks on atrial fibrillation and hypercholesterolemia; coded them into a graph database that covered more than 3,000 specific nodes and relationships.

SKILLS:

- Data collection, cleansing, analysis and presenting;
- Statistical computing and analysis : Python(with Tensorflow) and R;
- Languages : Mandarin and Cantonense Chinese(Native) and English(Fluent)