Yimeng SHANG

☎ +1 (646)7045390 ✉ ys3298@cumc.columbia.edu https://ys3298.github.io/

Education

Columbia University in the city of New York (M.S. in *Biostatistics, Theory and Methods*) GPA:4.0/4.0

08/2019 – Expected 05/2021

East China Normal University (B.S. in *Mathematics and Applied Mathematics*) 09/2015 - 06/2019

International Study Program, University of California, Berkeley (*Math & Stat*) 08/2017 - 05/2018

Internship Experience

Eli Lilly China Shanghai, China

Intern Data Sciences & Solutions 09/2018 – 06/2019

- Support data management work in clinical trials under supervision of China DSS team and participate in the discussion of statistical methods applied for process design of clinical trials
- Perform consumer data mining via R, business impact analysis and quantitative analysis of possible interference risks during clinical trials and organization operation

Research\Project Experience

Gender Pay Gap Claims by Female Doctors at Houston College of Medicine

Course Project 12/2019

- Use R to visualize the given data and realize multiple linear regression to quantify associations between salaries and gender as well as any other covariates included in the data
- Test confounders and interaction terms between gender and other covariates to build to final model and do related stratification analysis

The Suicide Rate Project

Course Project 11/2019 – 12/2019

- Use R to produce time-based graphics indicating number of suicide cases related to multiple risk factors based on the gathered data from different source and realize multiple linear regression to find the main effect
- Make a Crude Suicide Rate map allowing users to toggle between different years and choose gender, demonstrating the changes in the suicide rate over time and visualize regional differences across the U.S.

Dynamics of Ebola Transmission

Independent Study, Advised by Professor Ping BI 10/2018 – 06/2019

- Use R to produce time-based graphics indicating number of infections, death toll and infectious victims based on infection cases and death data and realize function fitting via linear regression
- Describe Ebola outbreak with SEIR dynamic system model, studied existence and stability of balance point with MATLAB and verify solution stability in the method of numerical simulation

Statistical Methods in Medical Research and Development

Independent Study, Advised by Professor Jin XU 08/2018 – 09/2019

- Referred to medical research papers concerning medicines from top 10 pharmaceutical companies around the world and write summaries of the adopted statistical methods
- Attend weekly seminars related to statistical methods of medical journals for clinical trials

Additional Information

Computer Skills: R, SAS, MATLAB, SPSS, Python, C++, Microsoft Office Access, Excel