

Jiayi Ji

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EDUCATION

Columbia University, Mailman School of Public Health, New York, NY

May 2018

Master of Science, Biostatistics

- Relevant coursework: *Generalized Linear Regression, Randomized Clinical Trial*

Fudan University, School of Public Health, Shanghai, China

June 2016

Bachelor of Medicine, Preventive Medicine concentration

- Relevant coursework: *Health Statistics, Introduction to Advanced Statistical Methods in Public Health Research*
- Awarded Scholarship for Outstanding Students (Top 5%) for 3 consecutive years

EXPERIENCE

Columbia University Mailman School of Public Health, New York, NY, Data Analyst

September 2017-Present

- Analyzed large datasets (~68 million) and explored machine learning methods in MySQL and R to track real-time influenza incidence combining both diagnostic and virologic data
- Compared and Contrasted different machine learning methods (Boosting, SVM, Random Forest...) using cross-validation
- Created clear and compelling reports, visualizations, and interactive apps for collaborators in R Markdown

Pacific Northwest National Laboratory, Richland, Washington Area, Data Science Intern

July 2017-August 2017

- Collaborated with designers and programmers to produce bio-surveillance web application, which will give real-time risk assessment for news related to zoonotic diseases
- Developed algorithms to calculate number of animals infected for each news using Monte Carlo method
- Presented final web application to the sponsors and won the third place in the competition

Department of Biostatistics, Fudan University, Shanghai, China, Data Analyst

April 2016-July 2016

- Cooperated with 3 research scientists on influenza prevention and launched first-ever evaluation of school breaks on influenza virus transmission in China
- Fitted Serfling-specified Poisson regression model with auto-correlation adjustment in R on data from 2008-2015
- Presented research paper at Student Research Diversity Day Conference held by Mailman School of Public Health

PUBLICATION

- Chu Y, Wu Z, **Ji J**, et al Effects of school breaks on influenza-like illness incidence in a temperate Chinese region: an ecological study from 2008-2015. *BMJ Open* 2017;7:e013159. doi: 10.1136/bmjopen-2016-013159

SKILLS AND CERTIFICATIONS

Computer: R, SAS, MS Office (Word, Excel, PowerPoint, Access), MySQL, Mplus

Languages: Native in Chinese (Mandarin), Proficient in English speaking and writing

Certification: SAS Certified Advanced Programmer for SAS 9