

# He Jin

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## Education

**Columbia University, Mailman School of Public Health, New York, NY** Expected May 2019

Master of Science in Biostatistics (Theory & Methods track)

- Relevant Coursework: Survival Analysis, Clinical Trials, Data Science, Data Mining, Relational Database & SQL

**Shanghai Jiao Tong University (SJTU), School of Pharmacy, Shanghai, China**

June 2017

Bachelor of Science in Pharmacy, Minor in Musicology

## Professional Experience

**Research Assistant – Data Analyst, School of Nursing, Columbia University, New York, NY** May 2018 – Present

- Utilized descriptive statistics and statistical models in analyzing survey and CMS data using SAS & STATA
- Streamlined and improved performance and accuracy of questionnaire using factor analysis and IRT model
- Summarized exhibits, tables and figures in Excel using Pivot Tables and prepared the final paper for review
- Recognized for formatting 20+ research papers in alignment with APA, AMA and Chicago Manual of Style guidelines
- Served as a main contributor in drafting protocols for data collection and data processing methods
- Collaborated with other researchers on data management, statistical analysis plan (SAP) and manuscript preparation

**Modeling Analyst Intern, BroadRiver Asset Management, L.P., New York, NY**

June 2018 – Sept 2018

- Expertly supported a project team of 7 to develop a medical questionnaire using qualitative and quantitative methods
- Conducted literature review of 122 articles on long-term mortality of seniors based on certain diseases & lifestyles
- Designed 327 questions with supporting scoring algorithm to estimate the survival rate of insured client in Python
- Managed and optimized large-scale life settlement dataset to track client outcomes and build portfolio efficiently
- Manipulated and analyzed third-party underwriting data to facilitate strategic decision and save cost for the firm
- Skillfully performed survival modeling to identify differences between clients' self-reported and actual health status

**Assistant Analyst, IlluminHealth, The Illuminera Group, Shanghai, China**

Jan 2017 – June 2017

- Conducted target data collection routinely through literature and database in each internal and external project
- Synthesized different types of data (continuous & categorical) and performed data analysis using Excel with VBA
- Assisted the final report and presentation of different market research projects by designing PowerPoint slides
- Drafted questionnaires to ensure alignment with customized requirements of multiple clients from various healthcare companies while participated in the in-depth interviews with 5+ physicians to acquire corresponding information

## Additional Experience

**Teaching Assistant, Data Science 1, Dept. of Biostatistics, Columbia University, New York, NY**

Sept 2018 – Jan 2019

- Facilitated outstanding support for a class of 150+ students and administered student-centered coaching, mentoring and development along with in-depth feedback to improve performance and abilities in data science skills

**Project Leader, Data Science 2, Dept. of Biostatistics, Columbia University, New York, NY**

Sept 2017 – May 2018

- Preprocessed the database (3700000 rows) and screened 9 features for further regression & classification analysis
- Performed exploratory data analysis and data visualization to the dataset via ggplot2, plot.ly and Shiny in R
- Evaluated the performance of different machine learning methods (Random Forest, SVM, Gradient Boosting, etc.)

**Research Assistant, Dept. of Bioinformatics & Biostatistics, SJTU, Shanghai, China**

Sept 2016 – Mar 2017

- Extracted and filtered phosphorylated protein data from CPTAC databases (10062 proteins, 51122 phosphosites)
- Strategized on best usage of distance correlation model and successfully assessed model fit for research question
- Applied the latest statistical model to the clinical data (77 patients) and analyzed results using R and Excel

**Research Associate, Microfluidics Lab, University of Illinois at Chicago, Chicago, IL**

June 2016 – Sept 2016

- Earned a stellar reputation for designing investigational projects on microfluidics biomedical devices while closely coordinating with a team of 3, thus streamlining experimental processes and enhancing efficiency by 25%

## Skills

**Statistical & Computing software**: SAS(Base Programmer Certificated), R, STATA, SPSS, SQL, Python, MATLAB, Mplus, Microsoft Office: Excel (VBA), Access and PowerPoint; **Languages**: Bilingual Fluency in English & Mandarin