

# CHUHAN ZHOU

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## EDUCATION QUALIFICATIONS

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| <b>Columbia University, Mailman School of Public Health</b><br>Master of Science, Biostatistics (Theory and Methods Track)<br>Courses: Data Science I, Biostatistical Methods I&II, Statistical Inference, Design of Medical Experiments, New Drug Development, Analysis of Longitudinal Data, Data Mining, Pharmacoepidemiology, etc. | New York, NY    | Expected May 2019 |
| <b>Fudan University, School of Pharmacy</b><br>Bachelor of Science, Pharmaceutical Science<br>Courses: Pharmaceutical Analysis, Pharmacy Administration, Biotech Drug Delivery System, Pharmaceutical Biotechnology, Pharmacokinetics, Integrated Experiments of Drug Design, VB programming, etc.                                     | Shanghai, China | Jun. 2017         |

## RESEARCH EXPERIENCE

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| <b>Columbia Univ., Dept. of Biostatistics, Investigator</b><br>▪ Cooperatively developed project to investigate determinants of racial survival disparities in patients with colorectal cancer<br>▪ Effectively researched on survey data as well as medical records and extracted 1500+ eligible records for further analysis<br>▪ Employed both parametric methods (Accelerated Failure Time) and Semi-parametric methods (Proportional Hazards Model) to quantify the mediation effect of diagnosis stage and surgery waiting time on racial survival disparities<br>▪ Professionally developed the framework to conduct mediation analysis for censored data in the clinical practice                                                                                                      | New York, NY | Nov. 2018 - Present    |
| <b>Hospital for Special Surgery, Data Research Intern</b><br>▪ Communicated with lead surgeons and cooperatively identified promising variables with impact on hospital-acquired infection (HAI) rate both in operative procedure and post-operative care of spinal surgeries<br>▪ Analyzed survey data collected from surgeons, anesthesiologists as well as assistants and estimated team consistency level for each surgical team in a self-motivated manner, improving model performance in estimating HAI rate significantly<br>▪ Performed regression modeling in R on variables of interest with nested cross-validation in support of model selection<br>▪ Generated visualizations including correlograms, tables as well as graphs and reported results to data manager periodically | New York, NY | Jul. 2018 - Sept. 2018 |

## PROFESSIONAL EXPERIENCE

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| <b>Boehringer-Ingelheim CO., Quality Assurance Intern</b><br>▪ Monitored medicine quality through gathering and analyzing related quality reports to detect potential quality issues<br>▪ Supported CAPA revision and implemented effective corrective or preventive actions to assure safe medicine supply<br>▪ Connected with downstream suppliers and reviewed qualification documents to ensure their adherence to GMP standard<br>▪ Worked as the head intern to lead intern training session and inspire team spirit                                                                                                                                              | Shanghai, China | Sept. 2016 - Nov. 2016 |
| <b>Jiaofu Biomed, Data Research Intern</b><br>▪ Examined rationality of experimental designs and extracted valid research data from over 100 glioma research studies<br>▪ Created data records for small-molecule chemo drugs without error to capture their properties and efficacy in glioma cells<br>▪ Processed data into desirable format and performed exploratory analysis to handle missing values and outliers<br>▪ Utilized statistical test in SPSS to validate efficacy and safety properties of target molecules in preclinical studies<br>▪ Improved reports summarizing methods and results for client delivery and was honored with an Innovation Award | Shanghai, China | Apr. 2016 - Jun. 2016  |
| <b>ProMedican, Assistant Medical Editor</b><br>▪ Collaborated with professionals of diverse backgrounds and assisted in preparation of project proposals, scientific reports as well as educational presentations of healthcare system optimization<br>▪ Designed visual aids to promote understanding of pulmonary diseases for audience without technical background                                                                                                                                                                                                                                                                                                  | Shanghai, China | Oct. 2015 - Mar. 2016  |

## LEADERSHIP EXPERIENCE

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| <b>Bayer China Healthcare Hackathon, Second prize winner</b><br>▪ Proficiently led the design of computer-aided diagnosis system to address the underdiagnosis problem of allergic diseases<br>▪ Performed cost-effectiveness analysis and marketing analysis to justify our solutions based on evidence-based research<br>▪ Synthesized research findings and recommendations into final product strategy and delivered a well-organized presentation | Shanghai, China | Mar. 2017 |
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## SKILLS

- Languages: English (Fluent), Chinese (Native)
- Proficiency in R (Data Wrangling, Statistical Analysis, Visualization) and MS Office (Word, Excel, PowerPoint, Access)
- Effective use of SAS (Base Programmer Certificated), Python, SQL, SPSS
- Familiarity with Tableau, Mplus
- Working knowledge of Clinical Trials Design and Drug Development Process