

# JIAN ZOU

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## EDUCATION

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- Columbia University, Mailman School of Public Health, New York, USA** Expected June 2019  
**Master of Science in Biostatistics** (Theory and Method track) - GPA: 4.00 (1st year)
- **Relevant Courses:** Probability (A+), Biostatistics Method II (A+), Topics in Advanced Statistical Computing (A), Introduction to Modern Analysis (A)
- Central China Normal University (CCNU), School of Life Science, Wuhan, China** Jun 2017  
**Bachelor of Science in Biotechnology and Applied Chemistry** (Dual Degree) - GPA: 3.85/4.00
- **Relevant Courses:** Advanced Mathematics I (95/100), Advanced Mathematics II (94/100), Linear Algebra B (99/100), Probability and Mathematical Statistics (99/100), Biostatistics (90/100)

## RESEARCH EXPERIENCE

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- Research Assistant, Mailman School of Public Health, Columbia University** May 2018 - Present  
**Research Project:** Dental Malpractice Data Analysis  
**Faculty Advisor:** Dr. Ying Wei
- Undertaking exploratory data analysis on National Practitioner Data Bank
  - Building classifiers with random forest and classical statistical regression methods
  - Evaluating the classifiers based on interpretability and statistical results
- Research Assistant, Mailman School of Public Health, Columbia University** Feb 2018 - Present  
**Research Project:** Multivariate Count Data Modelling  
**Faculty Advisor:** Dr. Bin Cheng
- Summarizing existing methods on multivariate count data regression
  - Inventing algorithm with latent variable approach and programming in R
  - Assessing the algorithm with simulations and real-world data
- Research Assistant, School of Life Science, CCNU** Nov 2016 - Mar 2017  
**Research Project:** Effects of Tea Polyphenols on Neurotoxicity in Mice  
**Faculty Advisor:** Dr. Xu Yang
- Analyzed hypothesis on neuroprotective effects of tea polyphenols and designed confirmatory experiments
  - Conducted behavioral experiment, oxidative stress evaluation, and DNA injury evaluation
  - Completed graduation thesis and rated as excellent
- Intern, Information Division, Shenzhen Center for Disease Control and Prevention** Jul - Aug 2016  
**Supervisor:** Dr. Xiaojian Liu
- Refined the sampling process of mortality surveillance system
  - Replaced missing values and checked quality of citizen death and air pollution data
  - Participated in the correlation analysis of air pollution and cardiovascular mortality
- Team Leader, School of Life Science, CCNU** Mar - Dec 2015  
**Research Project:** Application of Glutathione to Antagonize H<sub>2</sub>O<sub>2</sub>-induced Oxidative Stress in Rat Cells (National University Students Innovation Program)  
**Faculty Advisor:** Dr. Xu Yang & Dr. Rui Li
- Detected metabolic activity and oxidative stress level of NR8383 and RTE cells
  - Analyzed the experimental data with t-test and linear trend test
  - Won second prize at National Life Science Innovation Experiment Contest

## TEACHING EXPERIENCE

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**Teaching Assistant**, Analysis of Categorical Data, Columbia Biostatistics, Summer 2018

## HONORS AND AWARDS

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- Excellent Graduate (1 out of 100), CCNU, **Jun 2017**
- Second Prize at National Life Science Innovation Experiment Contest, National Demonstration Center for Experimental Education, **Aug 2016**
- *Boya Jingui* Merit Scholarship of the Year (1 out of 50), CCNU, **Oct 2016**
- Freshman Scholarship (1 out of 100), CCNU, **Sep 2013**

## PUBLICATION

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Yu Lu, Yao Li, Yingdan Hu, Qiulin Li, Yun Zhao, **Jian Zou**, Xiaotong Liu, Xu Yang, & Rui Li (2018). Effects of Di-iso-decyl phthalate on the learning-memory ability in mice, *China Environmental Science*, 38(1), 361-368. (In Chinese)

**Jian Zou**, Jinbo Yu, Yuqing Zhu, Jiali Zhu, Jing Du, & Xu Yang (2016). Application of Glutathione to Antagonize H<sub>2</sub>O<sub>2</sub>-induced Oxidative Stress in Rat Tracheal Epithelial Cells, *Frontiers in Biology*, 11(1), 59-63.

## SKILLS

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**Computers:** R, SAS, Microsoft Office, GraphPad Prism, MATLAB, SPSS

**Languages:** English (Proficient), Chinese (Native)