JIAN ZOU

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EDUCATION

Columbia University, Mailman School of Public Health, New York, USA   Expected June 2019
M.S. in Biostatistics (Theory and Method track) - GPA: 4.00 (1st year)

Central China Normal University (CCNU), School of Life Science, Wuhan, China   Jun 2017
B.S. in Biotechnology and Applied Chemistry (Dual Degree) - GPA: 3.85/4.00

RESEARCH EXPERIENCE

Research Assistant, Mailman School of Public Health, Columbia University   May 2018 - Present
Research Project: Dental Malpractice Data Analysis
Faculty Advisor: Dr Ying Wei
- Learned classifier algorithms in machine learning
- Analyzed data with machine learning methods and classical statistical methods respectively
- Proposed model evaluations

Research Assistant, Mailman School of Public Health, Columbia University   Feb 2018 - Present
Research Project: Multivariate Count Data Modelling
Faculty Advisor: Dr Bin Cheng
- Reviewed relevant essays and wrote summaries
- Designed the algorithm and programmed in R
- Conducted simulations to evaluate the algorithm

Research Assistant, School of Life Science, CCNU   Nov 2016 - Mar 2017
Research Project: Effects of Tea Polyphenols on Neurotoxicity in Mice (Graduation Thesis)
Faculty Advisor: Dr Xu Yang
- Designed experiment after literature review
- Conducted behavior experiment, oxidative stress evaluation and DNA injury evaluation
- Wrote the thesis and completed graduation defense of dissertation

Intern, Information Division, Shenzhen Center for Disease Control and Prevention   Jul – Aug 2016
Supervisor: Xiaojian Liu
- Understood the sampling process of mortality surveillance system
- Handled missing values and made quality check of citizen death and air pollution data
- Participated in the correlation analysis of the air pollution and cardiovascular mortality

Team Leader, National University Students Innovation Program   Mar - Dec 2015
Research Project: Application of Glutathione to Antagonize H_2O_2-induced Oxidative Stress in Rat Cells
(Sponsored by the Ministry of Education of the P.R. China)
Faculty Advisor: Dr Xu Yang & Dr Rui Li
- Won second prize at National Life Science Innovation Experiment Contest
- Designed experiment and procedure
- Evaluated the activity and the level of oxidative stress of NR8383 and RTE cells
- Processed and visualized experimental data

TEACHING EXPERIENCE
Teaching Assistant, Analysis of Categorical Data, Columbia Biostatistics, Summer 2018

HONORS AND AWARDS
- 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
Lu, Y., Li, Y., Hu, Y., Li, Q., Zhao, Y., **Zou, J.,** ... & Li, R. (2018). Effects of Di-iso-decyl phthalate on the learning-memory ability in mice. *China Environmental Science*, *38*(1), 361-368. (Published in Chinese)

Zou, J., Yu, J., Zhu, Y., Zhu, J., Du, J., & Yang, X. (2016). Application of glutathione to antagonize H_2O_2-induced oxidative stress in rat tracheal epithelial cells. *Frontiers in biology*, *11*(1), 59-63.

SKILLS
Computers: R, SAS, Microsoft Office, MATLAB, SPSS