JIAN ZOU

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EDUCATION

Ph.D. in Biostatistics *Sep. 2019 – Present*
Graduate School of Public Health, University of Pittsburgh, Pittsburgh, USA
· GPA: 3.92/4.00
· Advisor: Dr. George C. Tseng

M.Sc. in Biostatistics (Theory and Method track) *Sep. 2017 – May 2019*
Mailman School of Public Health, Columbia University, New York, USA
· GPA: 4.00/4.33
· Advisor: Drs. Bin Cheng & Ying Wei
· Practicum project: "Statistical Evaluation and Selection of Normalization Methods for microRNA Sequencing Data in Cancer Biomarker Studies".

B.Sc. in Biotechnology and Applied Chemistry (Dual Degree) *Sep. 2013 – May 2017*
School of Life Science, Central China Normal University (CCNU), Wuhan, China
· GPA: 3.85/4.00
· Advisor: Drs. Xu Yang & Rui Li
· Thesis title: "Effects of tea polyphenols on neurotoxicity in mice".

EXPERIENCE

Research Intern Jan. 2019 – May 2019
Memorial Sloan Kettering Cancer *New York, USA*

· Assistant to Dr. Li-Xuan Qin, working on Statistical evaluation and selection of normalization methods for microRNA sequencing data.
· Reviewed the literature of existing normalization methods on RNA sequencing data.
· Programed for empirical data analysis and simulation studies.
· Participated in results interpretation and manuscript writing.

Research Assistant May 2018 – May 2019
Columbia Biostat *New York, USA*

· Assistant to Dr. Ying Wei, working on dental malpractice data analysis.
· Undertook exploratory data analysis on National Practitioner Data Bank.
· Built classifiers with random forest and classical statistical regression methods.
· Evaluated the classifiers based on interpretability and statistical results.

Research Assistant Feb. 2018 – May 2019
Columbia Biostat *New York, USA*

· Assistant to Dr. Bin Cheng, working on multivariate count data modelling.
· Summarized existing methods on multivariate count data regression.
· Developed an algorithm with latent variable approach and programming in R.
· Assessed the algorithm with simulations and real-world data.

PUBLICATION

Authors who equally contributed to a publication are marked with a †.

Methodology and major work

1. Li-Xuan Qin, **Jian Zou**, Jiejun Shi, Ann Lee, Aleksandra Mihailovic, Thalia A. Farazi, Thomas Tuschl, Samuel Singer (2020). Statistical Assessment of Depth Normalization for Small RNA Sequencing, *JCO Clin Cancer Inform.*, 4, 567-582.

Collaborative publications

2. Neil Carleton, **Jian Zou**, Yusi Fang, Stephen E. Koscumb, Osama Shiraz Shah, Fangyuan Chen, Sushil Beriwal, Emilia J. Diego, Adam M. Brufsky, Steffi Oesterreich, Steven D. Shapiro, Robert Ferris, Leisha A. Emens, George C. Tseng, Oscar C. Marroquin, Adrian V. Lee, Priscilla F. McAuliffe (2021). Outcomes After Sentinel Lymph Node Biopsy and Radiotherapy in Older Women With Early-Stage, Estrogen Receptor–Positive Breast Cancer, *JAMA Network Open*, e216322–e216322.

3. Terrell E Jones, **Jian Zou**, George C. Tseng, Somak Roy, Rohit Bhargava (2021). The Utility of Next-Generation Sequencing in Advanced Breast and Gynecologic Cancers: Experience of a Large Tertiary Care Women's Hospital, *American Journal of Clinical Pathology.*

4. Peng Liu, Silvia Liu, Yusi Fang, Xiangning Xue, **Jian Zou**, George C. Tseng, Liza Konnikova (2020). Recent Advances in Computer-assisted Algorithms for Cell Subtype Identification of Cytometry Data, *Frontiers in Cell and Developmental Biology*, 8, 234.

PRESENTATIONS

· Statistical Assessment of Depth Normalization Methods for MicroRNA Sequencing, *ICSA, Hangzhou* Dec. 2019

HONORS

· Excellent Graduate, *CCNU* Jun. 2017
· *Boya Jingui* Merit Scholarship of the Year, *CCNU* Oct. 2016
· Second Prize, *National Life Science Innovation Experiment Contest* Aug. 2016
· Freshman Scholarship, *CCNU* Sep. 2013

TEACHING

· Teaching Assistant, Analysis of Categorical Data, *Columbia Biostat* Summer 2018

ACADEMIC SERVICE

· Student Representative, *Pitt Biostat* 2020 – present
· Student Representative, *ASA Pitt Chapter* 2020 – present
· Student Member, *ASA SSGG Member Engagement Committee* 2020 – present