JINGRU ZHANG

Contact Information

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Education

09/2013-07/2019	PhD, Computational Mathematics Beijing International Center for Mathematical Research, Peking University, Beijing, P.R.China Advisors: Professors Weinan E and Wei Lin
09/2016-09/2017	Visiting Student Department of Statistics, University of California, Davis Advisor: Professor Hao Chen
09/2009-07/2013	B.S., Applied Mathematics School of Mathematical Sciences, Nankai University, Tianjin, P.R.China Advisor: Professor Jishou Ruan

Work Experience

09/2015-01/2016	Teaching Assistant, School of Mathematical Sciences, Peking University: Mathematical Statistics (undergraduate course)
03/2015-06/2015	Teaching Assistant, School of Mathematical Sciences, Peking University: Algorithms of Big Data Analysis (graduate course)
03/2014-06/2014	Teaching Assistant, School of Mathematical Sciences, Peking University: Probability Theory (undergraduate course)
09/2013-01/2014	Teaching Assistant, School of Mathematical Sciences, Peking University: Linear Algebra (undergraduate course)

Honors and Awards

2018	Outstanding research award, Peking University
2017	Outstanding research award, Peking University
2016	Special Scholarship, Peking University
2015	"5.4" Scholarship, Peking University
2014	Special Scholarship, Peking University
2013	Outstanding Graduate, Nankai University

2012	National Endeavor Fellowship, Nankai University
2011	First-class Scholarship, Nankai University
2010	National Endeavor Fellowship, Nankai University

Academic Activities

Oral presentation: "Graph-Based Two-Sample Tests for Discrete Data", ICSA 2018 Applied Statistics Symposium, Rutgers University (June 14, 2018 – June 17, 2018)

Participant in the ICIAM, Beijing, China (August 10, 2015 – August 14, 2015)

Participant in the Frontiers of Applied and Computational Mathematics, BICMR, China (August 7, 2015 – August 9, 2015)

Participant in the 1st Joint Conference of A3 Foresight Program, Jeju, Korea, (November 21, 2014 – November 23, 2014)

Participant in the IAS focused programs, HKUST (May 12, 2014 – May 15, 2014)

Research Interests

High-dimensional statistics; Computational statistics; Big and complex data analysis

Publication

- Jingru Zhang and Wei Lin (2019). Scalable estimation and regularization for the logistic normal multinomial model. Biometrics. https://doi.org/10.1111/biom.13071

Preprints

- Jingru Zhang and Hao Chen (2019). Graph-based two-sample tests for data with repeated observations. Submitted. http://www.math.pku.edu.cn/students/1301110029/gtests.pdf
- Jingru Zhang and Wei Lin (2019+). Principal subspace analysis for high-dimensional compositional data. To be submitted (available upon request).
- Jingru Zhang, Hao Chen, and Xiao-Hua Zhou (2019+). New non-parametric tests for multivariate paired data. To be submitted (available upon request).
- Jingru Zhang, Xiao-Hua Zhou, Xinting Huang, Wenhao Mao (2019+). Doctor profile analysis with social regularization. To be submitted (available upon request).

Software (R Package)

gTests: Graph-Based Two-Sample Tests.

Computer Skills

R, MATLAB, C/C++, Linux

References

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