

Curriculum Vitae

Personal Information

Huiming Zhang (Male, 22/11/1990, born in Guilin in Guangxi province, China)

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Higher Education

2016- : Peking University, Ph.D. student, Major in High-dimensional statistics (Supervisor: Jinzhu Jia);

2013-2016: Central China Normal University, Master's degree, Major in Probability and Mathematical Statistics;

2009-2013: Central China Normal University, Double bachelor's degrees, Major in Mathematics and Economics.

Research Interests

1. High-dimensional statistics and Probability (Lasso, Oracle Inequalities, Concentration Inequalities), 2. Statistical models of count data (GLM), 3. Infinitely divisible distributions and Lévy Processes, Point Process.

Academic activities

Summer School, Meeting:

1. East China Normal University, Summer School on Statistics, Shanghai, 2014.
2. Northeast Normal University, Postgraduate Summer School on Statistics, Changchun, 2014.
3. The 10th Annual Meeting of Chinese Society of Probability and Statistics, Shandong University, Jinan, 2014 October. (Group Presentation: *From Feller's characterization of discrete ID to discrete quasi ID*)
4. Northeast Normal University, Postgraduate Summer School on Statistics, Changchun, 2015.
5. HIT International Summer School on Pure and Applied Mathematics, Harbin, 2015.
6. Peking University, Summer Short Course on High-Dimensional Data and Network Analysis, 2016
7. Northeast Normal University, Postgraduate Summer School on Statistics, Changchun, 2016.
8. East China Normal University, Summer School on Statistics, Shanghai, 2016.
9. East China Normal University, Summer School on Statistics, Shanghai, 2017.
10. HIT International Summer School on Applied Mathematics, Harbin, 2017.

Reviewer:

IEEE Transactions on Signal Processing; Communications in Statistics - Simulation and Computation; Sri Lankan Journal of Applied Statistics.

Teaching Assistant

Current semester (Graduate course of PKU): 1. Advanced Theory of Statistics (by Prof. Lin Wei); 2. Advanced Multivariate Statistical Analysis (by Prof. Chen Songxi).

Undergraduate course of PKU: Probability and Statistics B, Linear Algebra B.

Undergraduate course of CCNU: Mathematical Statistics (2 semesters), Functions of Real Variable.

Awards

Ping An Endeavourers Scholarship, 2015.

National scholarship for graduate students of China, 2014.

Excellent thesis for bachelor's degree of Hubei Province, 2013.

1st Award in Huazhong District Undergraduate Mathematical Contest in Modeling, 2012.

3rd Hubei Province Award in China Undergraduate Mathematical Contest in Modeling, 2012.

Grants

1. Excellent doctoral dissertation cultivation grant from Central China Normal University (Master dissertation), 2015.12-2016.06.

2. National University Student Innovation Program of China, 2012-2013.

Publications

Books

[1] Chinese translation of "Chung, K. L., AitSahlia, F. (2003). *Elementary probability theory: with stochastic processes and an introduction to mathematical finance*. Springer." Beijing World Publishing Corporation, 201?.

Master dissertation

Infinite Divisibility and Compound Poisson Law: Related Count Data Models and High-Dimensional Variable Selection, 2016, Central China Normal University.

Papers (selected)

[1]Zhang, H., Li, B., Kerns, G. J. (2017). A characterization of signed discrete infinitely divisible distributions. *Studia Scientiarum Mathematicarum Hungarica*. 54(4).

[2]Zhang, H., Li, B. (2016). Characterizations of discrete compound Poisson distributions. *Communications in Statistics-Theory and Methods*, 45(22), 6789-6802.

[3]Zhang H. New proofs of Chaundy--Bullard identity in "The Problem of Points", *The Mathematical Intelligencer*, 2016, 38(1): 4-5.

[4]Zhang H., Liu, Y., Li, B. (2014). Notes on discrete compound Poisson model with applications to risk theory. *Insurance: Mathematics and Economics*, 59, 325-336.

Manuscripts:

[5]Zhang, H., Jia, J. The Oracle Inequalities for Data Dependent Weighted Lasso Estimators in Sparse High-dimensional Negative Binomial Regression, In preparation.

[6]Zhang, H., Jia, J. Elastic-net regularized High-dimensional Negative Binomial Regression: Consistency and Weak Signals Detection, In preparation

[7]Zhang, H., Wu, X. Notes on Discrete Compound Poisson Point Process and Its Concentration Inequalities, submitted.

[8]Li, B., Zhang, H., He, J. Some characterizations and properties of COM-Poisson random variables, In preparation.

[9] Zhang, H., Tan, K., Li, B. The COM-negative binomial distribution: modeling overdispersion and ultrahigh zero-inflated count data, submitted.

My Google scholar link: <https://scholar.google.com/citations?user=P6Xdk6AAAAAJ&hl=en> (Times Cited: 33)