Dr. Zhuo-Song Zhang

BASIC INFORMATION
- School of Mathematics and Statistics, University of Melbourne, Parville, VIC, 3010, Australia
- Phone: (+61) 383448821
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EDUCATION

The Chinese University of Hong Kong, Hong Kong
- Ph.D. in Statistics — Aug 2013 – Jul 2017
  - Supervisor: Prof. Qi-Man, Shao.

Wuhan University, China
- B.S. in Statistics. — Sep 2009 – Jun 2013

RESEARCH EXPERIENCE

Stanford University, Statistics Department
- Visiting Student Researcher — Jul 2016 – Aug 2016
  - Adviser: Prof. Sourav Chatterjee.

Melbourne University, School of Mathematics and Statistics
- Research Fellow in statistics — Aug 2017 – present
  - Adviser: Prof. Aurore Delaigle.

RESEARCH INTERESTS

Asymptotic theory in probability and statistics; Stein's method; Functional data analysis; Nonparametric statistics.

PUBLICATIONS

[1] Q.-M. Shao and Z.-S. Zhang. (2016). "Identifying the limiting distribution by a general approach of Stein's method", *Sci. China Math.* , vol. 59, Issue 12, pp. 2379–2392.

[2] Q.-M. Shao and Z.-S. Zhang. (2019). "Berry–Esseen bounds of normal and nonnormal approximation for unbounded exchangeable pairs", *Ann. Probab.*, vol. 47, Number 1, pp. 61–108.

SUBMITTED PAPERS

[1] Q.-M. Shao, M.-C. Zhang and Z.-S. Zhang, "Cramér-type moderate deviations for non-normal approximation". Submitted to *Ann. Probab.*

WORKING PAPERS

[1] Z.-S. Zhang, "Berry-Esseen bound for non-linear multivariate statistics".

[2] Q.-M. Shao, and Z.-S. Zhang, "Cramér-type moderate deviations for unbounded exchangeable pairs".

[3] A. Delaigle, D. Dutta and Z.-S. Zhang, "Reconstructing fragmented functional data by Markov chains".

[4] X. Fang and Z.-S. Zhang, "Moderate deviations in the local limit theorems".

[5] A. Delaigle and Z.-S. Zhang, "Reconstructing functional data by nonparametric methods".

[6] P. Hall, A. Delaigle and Z.-S. Zhang, "Effects of dependence on estimators of mean and covariance for functional data".

INVITED PRESENTATIONS	[1] *Stein's method and related topics*, University of Macau, Dec 2018.
	[2] *The 5th Institute of Mathematical Statistics Asia Pacific Rim Meeting*, The National University of Singapore, Singapore, Jun 2018.
	[3] *2017 IMS-China International Conference on Statistics and Probability*, Guangxi University For Nationalities, Nanning, China, Jun 2017
	[4] *The 10th ICSA international conference*, Shanghai Jiao Tong University, Shanghai, China, Dec 2016.
	[5] *The International Symposium on Probability Theory and Related Fields*, Southern University of Science and Technology, Shenzhen, China, Nov 2016.
	[6] *The 4th Institute of Mathematical Statistics Asia Pacific Rim Meeting*, The Chinese University of Hong Kong, HK, Jun 2016.

AWARDS & SCHOLARSHIPS

- Overseas Research Award, 2015–2016
  Department of Statistics, The Chinese University of Hong Kong
- Nominee of Global Young Scientists Summit 2015, 2014–2015
  Science Faculty, The Chinese University of Hong Kong
- Wuhan University Outstanding Graduate student, 2013
- National motivational scholarships, 2011
- Wuhan University Outstanding students scholarship, 2011
- Wuhan University Excellent student, 2011

PROFESSIONAL SERVICES

REVIEWERS
Journals: Bernoulli, Probability in the Engineering and Informational Sciences

SUPERVISION EXPERIENCE

PHD STUDENTS
Mr. Debajit Dutta, PhD student
  Co-supervisor of his thesis work on "fragmented functional data".

TEACHING

- Fall 2018, MAST90123, Advanced Mathematical Statistics, University of Melbourne

TEACHING ASSISTANT

- Fall 2013, STAT 2001 A/B, Basic Concepts in Probability and Statistics I
- Spring 2014, STAT 2006 A/B, Basic Concepts in Probability and Statistics II
- Fall 2014, STAT 5005, Advanced Probability Theory
- Spring 2015, STAT 4003, Statistical Inference
- Fall 2015, STAT 5005, Advanced Probability Theory
- Fall 2015, RMSC 5001, Advanced Statistical Theory in Risk Management
- Spring 2016, RMSC 4001, Simulation Methods for Risk Management Science and Finance
- Fall 2016, STAT 3210, Statistical Techniques in Life Sciences