Curriculum Vitae

Personal Information

Canyi Chen

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Education

Renmin University of China, Beijing, China (September 2018 – present)
PhD in Statistics

Beijing Normal University, Beijing, China (September 2014 – August 2018)
BSc in Mathematics

Research Interests

(Decentralized) Distributed statistical learning; Non-Linear dependence measure

Journal Publications

1. **Chen, C.,** Gu, Y., Zou, H. & Zhu, L. Distributed Sparse Composite Quantile Regression in Ultrahigh Dimensions. *Statistica Sinica.* doi:`10.5705/ss.202022.0095` (2024).
2. **Chen, C.** Scalable and Globally Convergent Algorithm for Sufficient Dimension Reduction. *Statistics and Its Interface.* doi:`10.4310/23-SII798` (2023).
3. **Chen, C.,** Xu, W. & Zhu, L. Distributed Estimation in Heterogeneous Reduced Rank Regression: With Application to Order Determination in Sufficient Dimension Reduction. *Journal of Multivariate Analysis* **190,** 104991. doi:`10.1016/j.jmva.2022.104991` (July 2022).
4. **Chen, C.** & Zhu, L. Distributed Decoding from Heterogeneous 1-Bit Compressive Measurements. *Journal of Computational and Graphical Statistics* **0,** 1–25. doi:`10.1080/10618600.2022.2118751` (Aug. 2022).
5. He, Y., **Chen, C.** & Xu, W. Distributed Estimation of High-Dimensional Linear Quantile Regression. *Statistics and Its Interface.* In press (2022).
6. Zhang, Y., **Chen, C.** & Zhu, L. Sliced Independence Test. *Statistica Sinica.* doi:`10.5705/ss.202021.0203` (2022).
7. Song, P., **Chen, C.,** Lou, Y., Jiang, H., Li, W. & Zhu, L. Assessing Effectiveness of Integrated Strategies for Preventing and Controlling the Outbreak of COVID-19 and Predicting Impact of Opening Exit Channels to Leave Hubei Province. *Chinese Journal of Applied Probability and Statistics* **36,** 321–330. doi:`10.3969/j.issn.1001-4268.2020.03.007` (June 2020).

Preprints

1. **Chen, C.** *Fast and Robust Low-Rank Learning over Networks: A Decentralized Matrix Quantile Regression Approach* Submitted. 2023.
2. **Chen, C.** *Robust and Efficient Sparse Learning over Networks: A Decentralized Surrogate Composite Quantile Regression Approach* Submitted. 2023.
3. **Chen, C.,** Chen, B., Kong, L. & Zhu, L. *Robust Multi-Task Learning in High Dimensions under Memory Constraint* Submitted. 2023.
4. **Chen, C.** & Zhu, L. *Distributed Estimation and Gap-Free Analysis of Canonical Correlations* Submitted. 2023.
5. Chen, B. & **Chen, C.** *Fast Optimization Methods for High-Dimensional Row-sparse Multivariate Quantile Linear Regression* Minor revision at Journal of Statistical Computation and Simulation. 2022.

Working Papers

1. **Chen, C.** & Chen, B. *Convoluted Support Matrix Machine in High Dimensions* Under working. 2023.

Open-source Software

SIT: Association Measurement Through Sliced Independence Test (SIT)

Grant Proposals

Canonical Correlation Analysis of Functional Data – *Renmin University of China*   2020

Asymptotics of the Derrida-Retaux Branch System – *National Students' Innovation and Entrepreneurship Training Program*   2016

FELLOWSHIPS & HONORS & AWARDS	**National Scholarship of China**	*2023*
	Outstanding Graduate of Renmin University of China	*2023*
	Wu Yuzhang Scholarship Finalist (in progress)	*2023*
	Jingdong Special Scholarship Finalist	*2022*
	Academic First Class Scholarship	*2019–2022*
	Academic Second Class Scholarship	*2018*
	Study Excellence Scholarships	*2020–2021*
	Merit Student	*2020*
	Third Class Scholarship for Social Work and Volunteer Service	*2019*
	National Second Prize in National Undergraduate Mathematical Modeling Contest	*2016*
	Jingshi First Class Competition Scholarships	*2017*
	National Inspirational Scholarship	*2015–2017*
	Jingshi First Class Competition Scholarships	*2016*
	Jingshi Second Class Scholarships	*2015, 2017*
	Merit Student	*2015*

Poster Awards:

1. The best presented poster, **Distributed Decoding from Heterogeneous 1-Bit Compressive Measurements**, *Statistics and Data Science Young Scholars Forum*, Beijing. [pdf] *2020*

WORKING EXPERIENCE	**Teaching Assistant** Renmin University of China	
	Computer Skills in Data Science – PhD Level	*Fall 2019*
	Asymptotic Statistics – PhD Level	*Fall 2020*
	Natural Language Processing – PhD Level	*Spring 2021*
	Anonymous Referee for *Statistica Sinica*	
	Voluntary Teachers in	
	Pengshui, Chongqing, China	2016
	Yongding, Fujian, China	2017
	Monitor in Institute of statistics and big data, Renmin University of China	2018–2020

SELECTED SEMINARS & PRESENTATIONS

1. Data Science Frontiers Forum, Southwestern University of Finance and Economics, Chengdu, China, July 2021 **(invited speaker)**

2. The 7th International Conference on Statistical Optimization and Learning, Beijing Jiaotong University, Beijing, China, December 2022 **(invited speaker)**

SKILLS

Programming languages: Python, R, C++, Bash, LaTeX, MATLAB, SQL.

Languages: Chinese, English, Eastern Min.

REFERENCES

Dr. Liping Zhu – *Thesis Advisor*
Professor of Statistics
Dean of Institute of Statistics and Big Data
Renmin University of China
Email: zhu.liping@ruc.edu.cn

Dr. Wangli Xu – *Thesis Committee Member*
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Renmin University of China
Email: wlxu@ruc.edu.cn

MAJOR COLLABORATORS

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