Canyi Chen

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Institute of Statistics and Big Data, Renmin University of China, Beijing 100872, China

EDUCATION

2018 – 2023   **PhD in Statistics**, Renmin University of China, China

2014 – 2018   **BSc in Mathematics**, Beijing Normal University, China

PUBLICATIONS/PREPRINTS

Peer-reviewed Papers/Preprints

1. **Chen, Canyi**, Wangli Xu, and Liping Zhu. 2022. "Distributed Estimation in Heterogeneous Reduced Rank Regression: With Application to Order Determination in Sufficient Dimension Reduction." *Journal of Multivariate Analysis* 190 (July): 104991. `https://doi.org/10.1016/j.jmva.2022.104991`.
2. Zhang, Yilin, **Canyi Chen**, and Liping Zhu. 2022. "Sliced Independence Test." *Statistica Sinica.* `https://doi.org/10.5705/ss.202021.0203`.
3. **Chen, Canyi**, and Liping Zhu. 2022. "Distributed Decoding From Heterogeneous 1-Bit Compressive Measurements." *Journal of Computational and Graphical Statistics* 0 (ja): 1–25. `https://doi.org/10.1080/10618600.2022.2118751`.
4. **Chen, Canyi**, Yuwen Gu, Hui Zou, and Liping Zhu. 2022. "Distributed Sparse Composite Quantile Regression in Ultrahigh Dimensions." *Statistica Sinica.* `https://doi.org/10.5705/ss.202022.0095`.
5. He,Yiran, **Canyi Chen**, and Wangli Xu. 2022. "Distributed Estimation of High-dimensional Linear Quantile Regression." *Statistics and Its Interface.* In press.
6. Song, Pengfei, **Canyi Chen**, Yuan Lou, Hui Jiang, Weimin Li, and Liping Zhu. 2020. "Assessing Effectiveness of Integrated Strategies for Preventing and Controlling the Outbreak of COVID19 and Predicting Impact of Opening Exit Channels to Leave Hubei Province." *Chinese Journal of Applied Probability and Statistics* 36(3): 321-330.
7. **Chen, Canyi**. 2022+. "Scalable and Globally Convergent Algorithm for Sufficient Dimension Reduction." Major Revision at *Computational Statistics*.
8. Chen, Bingzhen, and **Canyi Chen**. 2022+. "Fast Optimization Methods for High-dimensional Row-sparse Multivariate Quantile Linear Regression." Major Revision at *Journal of Statistical Computation and Simulation*.
9. **Chen, Canyi**, Bingzhen Chen, Lingchen Kong, and Liping Zhu. 2022+. "Robust Multi-task Learning in High Dimensions under Memory Constraint." Submitted to *Journal of Multivariate Analysis*.
10. **Chen, Canyi**, Liping Zhu. 2022+. "Distributed Estimation and Gap-Free Analysis of Canonical Correlations." Submitted.

Working Papers

1. **Chen, Canyi**, Liping Zhu. 2022+. "Robust and Efficient Sparse Learning over Networks: A Decentralized Surrogate Composite Quantile Regression Approach to Heterogeneity."
2. **Chen, Canyi**, Liping Zhu. 2022+. "Robust and Fast Low-Rank Learning over Networks: With Application to Matrix Completion."

GRANTS & FELLOWSHIPS

2018 – 2019   Canonical Correlation Analysis of Functional Data. *Renmin University of China*

2016 – 2017   Asymptotics of the Derrida-Retaux Branch System. *National Students' Innovation and Entrepreneurship Training Program.*

HONORS AND AWARDS

2018 – 2022   National Scholarship of China (2022), Academic First Class Scholarship (2019, 2020, 2021, 2022), Academic Second Class Scholarship (2018), Study Excellence Scholarships (2020, 2021), Merit Student (2020), Third Class Scholarship for Social Work and Volunteer Service (2019). *Renmin University of China.*

2014 – 2018   National Second Prize in National Undergraduate Mathematical Modeling Contest (2016), Jingshi First Class Competition Scholarships (2017), National Inspirational Scholarship (2015, 2016, 2017), Jingshi First Class Competition Scholarships (2016), Jingshi Second Class Scholarships (2015, 2017), Merit Student (2015). *Beijing Normal University*.

WORK EXPERIENCE

Teaching Assistant

Computer Skills in Data Science (Fall 2019), Asymptotic Statistics (Fall 2020), Natural Language Processing (Spring 2021).

Academic Service

Anonymous referee for *Statistica Sinica.*

SOFTWARE SKILLS

Proficiency in R (tidyverse), MATLAB, Python (numpy, tensorflow), LaTeX; Capable of C/C++ (armardillo), SQL, SPSS, Linux.