

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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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* Major revision at Journal of Statistical Computation and Simulation. 2022.

WORKING PAPERS

1. **Chen, C.** & Chen, B. *Convolutional 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

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|---|---|---|
| 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 , <i>Statistics and Data Science Young Scholars Forum</i> , 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 <i>Statistica Sinica</i> | |
| | Voluntary Teachers in | |
| | Pengshui, Chongqing, China | 2016 |
| SELECTED SEMINARS & PRESENTATIONS | Yongding, Fujian, China | 2017 |
| | Monitor in Institute of statistics and big data, Renmin University of China | 2018–2020 |
| | 1. Data Science Frontiers Forum, Southwestern University of Finance and Economics, Chengdu, China, July 2021 (invited speaker) | |
| SKILLS | 2. The 7th International Conference on Statistical Optimization and Learning, Beijing Jiaotong University, Beijing, China, December 2022 (invited speaker) | |
| | Programming languages: Python, R, C++, Bash, L ^A T _E X, MATLAB, SQL. | |
| REFERENCES | Languages: Chinese, English, Eastern Min. | |
| | Dr. Liping Zhu – <i>Thesis Advisor</i> | Dr. Wangli Xu – <i>Thesis Committee Member</i> |
| MAJOR COLLABORATORS | Professor of Statistics | Professor of Statistics |
| | Dean of Institute of Statistics and Big Data | Renmin University of China |
| | Renmin University of China | Email: wlxu@ruc.edu.cn |
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| | Dr. Yuwen Gu | Dr. Bingzhen Chen |
| | Assistant Professor of Statistics | Assistant Professor of Statistics |
| | University of Connecticut | Hangzhou Dianzi University |
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Dr. Hui Zou
Professor of Statistics
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