

# CURRICULUM VITAE

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## 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* Minor 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

|   |  |  |
|---|--|--|
| FELLOWSHIPS &<br>HONORS &<br>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, <b>Distributed Decoding from Heterogeneous 1-Bit Compressive Measurements</b> , <i>Statistics and Data Science Young Scholars Forum</i> , Beijing. <a href="#">[pdf]</a> 2020                              |  |
| WORKING<br>EXPERIENCE                   | <b>Teaching Assistant</b> 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  |
|   | <b>Anonymous Referee for</b> <i>Statistica Sinica</i>  |  |
|   | <b>Voluntary Teachers</b> in   |  |
|   | Pengshui, Chongqing, China   | 2016   |
|   | Yongding, Fujian, China  | 2017   |
|   | <b>Monitor</b> in Institute of statistics and big data, Renmin University of China   | 2018–2020  |
| SELECTED<br>SEMINARS &<br>PRESENTATIONS | 1. Data Science Frontiers Forum, Southwestern University of Finance and Economics, Chengdu, China, July 2021 ( <b>invited speaker</b> )  |  |
|   | 2. The 7th International Conference on Statistical Optimization and Learning, Beijing Jiaotong University, Beijing, China, December 2022 ( <b>invited speaker</b> )  |  |
| SKILLS                                  | <b>Programming languages:</b> Python, R, C++, Bash, L <sup>A</sup> T <sub>E</sub> X, MATLAB, SQL.  |  |
|   | <b>Languages:</b> Chinese, English, Eastern Min.   |  |
| REFERENCES                              | <b>Dr. Liping Zhu</b> – <i>Thesis Advisor</i><br>Professor of Statistics<br>Dean of Institute of Statistics and Big Data<br>Renmin University of China<br><i>Email:</i> <a href="mailto:zhu.liping@ruc.edu.cn">zhu.liping@ruc.edu.cn</a> | <b>Dr. Wangli Xu</b> – <i>Thesis Committee Member</i><br>Professor of Statistics<br>Renmin University of China<br><i>Email:</i> <a href="mailto:wlxu@ruc.edu.cn">wlxu@ruc.edu.cn</a> |
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| MAJOR<br>COLLABORATORS                  | <b>Dr. Yuwen Gu</b><br>Assistant Professor of Statistics<br>University of Connecticut<br><i>Email:</i> <a href="mailto:yuwen.gu@uconn.edu">yuwen.gu@uconn.edu</a>  | <b>Dr. Bingzhen Chen</b><br>Assistant Professor of Statistics<br>Hangzhou Dianzi University<br><i>Email:</i> <a href="mailto:chenbingzhen6026@163.com">chenbingzhen6026@163.com</a>  |
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