

# CURRICULUM VITAE

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## PERSONAL INFORMATION

**Canyi Chen**

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## EDUCATION

**Renmin University of China**, Beijing, China (September 2018 – July 2023)

PhD in *Statistics*

**Beijing Normal University**, Beijing, China (September 2014 – July 2018)

BSc in *Mathematics and Applied Mathematics*

## RESEARCH INTERESTS

**High-dimensional data analysis; 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, B. & **Chen, C.** Fast Optimization Methods for High-Dimensional Row-sparse Multivariate Quantile Linear Regression. *Journal of Statistical Computation and Simulation*. In press. doi:[10.1080/00949655.2023.2232504](https://doi.org/10.1080/00949655.2023.2232504) (2023).
3. **Chen, C.** Scalable and Globally Convergent Algorithm for Sufficient Dimension Reduction. *Statistics and Its Interface*. In press. doi:[10.4310/23-SII798](https://doi.org/10.4310/23-SII798) (2023).
4. **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).
5. **Chen, C.** & Zhu, L. Distributed Decoding from Heterogeneous 1-Bit Compressive Measurements. *Journal of Computational and Graphical Statistics* **32**, 884–894. doi:[10.1080/10618600.2022.2118751](https://doi.org/10.1080/10618600.2022.2118751) (Aug. 2022).
6. He, Y., **Chen, C.** & Xu, W. Distributed Estimation of High-Dimensional Linear Quantile Regression. *Statistics and Its Interface*. In press (2022).
7. 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).
8. 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, B. & **Chen, C.** *Convolutional Support Matrix Machine in High Dimensions* under review at *IEEE Transactions on Neural Networks and Learning Systems*. 2023.
2. **Chen, C.** *Fast and Robust Low-Rank Learning over Networks: A Decentralized Matrix Quantile Regression Approach* Major revision at *Journal of Computational and Graphical Statistics*. 2023.
3. **Chen, C.** *Robust and Efficient Sparse Learning over Networks: A Decentralized Surrogate Composite Quantile Regression Approach* submitted. 2023.
4. **Chen, C.**, Chen, B., Kong, L. & Zhu, L. *Robust Multi-Task Learning in High Dimensions under Memory Constraint* Minor revision at *Statistical Analysis and Data Mining*. 2023.
5. **Chen, C.** & Zhu, L. *Distributed Estimation and Gap-Free Analysis of Canonical Correlations* submitted. 2023.
6. **Chen, C.** & Zhu, Z. *Byzantine-Robust Distributed High-Dimensional Composite Quantile Regression with Near-Oracle Rate* under review at *Computational Statistics & Data Analysis*. 2023.
7. Hao, W., **Chen, C.** & Song, P. X.-K. *A Class of Directed Acyclic Graphs with Mixed Data Types in Mediation Analysis* under review at *Biometrics*. Nov. 2023. arXiv: [2311.17867](https://arxiv.org/abs/2311.17867) [stat].

## 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	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 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> , <i>IEEE Transactions on Neural Networks and Learning Systems</i>	
	<b>Voluntary Teachers</b> in	
	Pengshui, Chongqing, China	2016
	Yongding, Fujian, China	2017
SELECTED SEMINARS & 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.	