

## EDUCATION

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### University of Pennsylvania

Ph.D. in Statistics, Advisor: T. Tony Cai

Philadelphia, USA

2017–Current

### Peking University

B.S. in Statistics

Beijing, China

2013–2017

## PUBLICATIONS

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- [1] T. T. Cai and **H. Wei**, “Distributed adaptive Gaussian mean estimation with unknown variance: Interactive protocol helps adaptation”, *The Annals of Statistics*, to appear, 2021.
- [2] T. T. Cai and **H. Wei**, “Distributed nonparametric regression: Optimal rate of convergence and cost of adaptation”, *The Annals of Statistics*, to appear, 2021.
- [3] T. T. Cai and **H. Wei**, “Transfer learning for nonparametric classification: Minimax rate and adaptive classifier”, *The Annals of Statistics*, vol. 49, no. 1, pp. 100–128, 2021.
- [4] **H. Wei** and J. Jia, “Inference of evolutionary modules by low rank matrix decomposition”, *Submitted to Bioinformatics*, 2021.
- [5] T. T. Cai and **H. Wei**, “Distributed Gaussian mean estimation under communication constraints: Optimal rates and communication-efficient algorithms”, *Submitted to Journal of Machine Learning Research*, 2020.

## WORKING PAPERS

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1. T. T. Cai and **H. Wei**, “Distributed Sparse Gaussian Sequence Detection and Classification: Phase Transition and Cost of Adaptation”.
2. T. T. Cai and **H. Wei**, “Transfer Learning for low rank matrices”.
3. T. T. Cai and **H. Wei**, “Optimal Crowdsourcing with low-rank matrix approximation”.

## TALKS

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1. Distributed gaussian mean estimation under communication constraints: Optimal rates and communication-efficient algorithms, *JSM 2020*
2. Distributed estimation under communication constraints, *Grace Wahba’s meeting, University of Wisconsin–Madison, 2020*

## TEACHING EXPERIENCE

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- *Probability*, Head Teaching Assistant Spring 2018
- *Statistical Computing with R*, Head Teaching Assistant Fall 2018, Spring 2019
- *Predictive Analytics for Business*, Head Teaching Assistant Fall 2018
- *Introduction to Python for Data Science*, Head Teaching Assistant Fall 2020, Spring 2021
- *Introduction to Business Statistics*, Head Teaching Assistant Fall 2021

## SCHOLARSHIPS AND AWARDS

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- Silver Medalist (U25) in World Youth Bridge Championship 2016
- National Scholarship 2016
- World Champion in Pairs and Teams Events (U20) in World Youth Open Bridge Championships 2015
- Gold Medal in Romanian Master of Mathematics Competition 2012