

# Bingkai Wang

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## Education

Ph.D. in Biostatistics, Johns Hopkins University, 2021 (expected)

B.S. in Mathematics, Fudan University, 2016

## Professional Experiences

Summer Internship, Statistical Methodology & Consulting Group, Novartis, 2018.

Research Assistant, Department of Biostatistics, Johns Hopkins University, 2016-present.  
Advisors: Michael Rosenblum and Brian Caffo.

Research Assistant, School of Mathematics, Fudan University, 2014-2016.  
Advisor: Shuqin Zhang.

## Publications

### Peer-reviewed Journal Articles

1. **Bingkai Wang**, Elizabeth L. Ogburn, and Michael Rosenblum. Analysis of covariance in randomized trials: More precision and valid confidence intervals, without model assumptions. *Biometrics* (2019). Doi: <https://doi.org/10.1111/biom.13062>.
2. Paniz Charkhchi, **Bingkai Wang**, Brian Caffo and David M. Yousem. (2018) Bias in Neuroradiology Peer Review: Impact of a “Ding” on “Dinging” Others. *American Journal of Neuroradiology*, December 2018.

### Manuscripts

1. **Bingkai Wang**, Ryoko Susukida, Ramin Mojtabai, Masoumeh Amin-Esmacili, and Michael Rosenblum. "Model-Robust Inference for Clinical Trials that Improve Precision by Stratified Randomization and Adjustment for Additional Baseline Variables." arXiv preprint [arXiv:1910.13954](https://arxiv.org/abs/1910.13954) (2019).
2. **Bingkai Wang**, Xi Luo, Yi Zhao, Brian Caffo. Semiparametric Partial Common Principal Component Analysis for Covariance Matrices. *bioRxiv*, doi: <https://doi.org/10.1101/808527>.
3. Yi Zhao, **Bingkai Wang**, Stewart Mostofsky, Brian Caffo, Xi Luo. Covariate Assisted Principal Regression for Covariance Matrix Outcomes. *bioRxiv*, doi: <https://doi.org/10.1101/425033>.

### Invited Commentary Articles

1. Michael Rosenblum, **Bingkai Wang**. The Critical Role of Statistical Analyses in Maximizing Power Gains From Covariate-Adaptive Trial Designs. *JAMA Netw Open*. Published online April 12, 2019(4):e190789. doi:10.1001/jamanetworkopen.2019.0789.

## Honors and Awards

Cersi Scholarship, National Institutes of Health and Johns Hopkins University, 2017-present.

## Teaching

Teaching Assistant, Statistical Methods in Public Health, 2018-present.

Teaching Assistant and Guest Lecturer, Advanced Data Science I-II, 2018.

Teaching Assistant and Guest Lecturer, Statistical Theory I-IV, 2017-2018.

## Professional Activities

### *Presentations*

Clarifying How Adjustment for Prognostic Baseline Variables Leads to More Precision and Less Bias in Randomized Trials. JSM, Denver, USA, July 2019.

Clarifying How Adjustment for Prognostic Baseline Variables Leads to More Precision and Less Bias in Randomized Trials. *ENAR, Atlanta, USA, March 2018.*

Benefits of adjustment for baseline variables in randomized trials. *JSM, Baltimore, USA, July 2017.*