Bingkai Wang

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Education

Ph.D. in Biostatistics, Johns Hopkins University, 2016-2021 (expected)

B.S. in Mathematics, Fudan University, 2012-2016

Professional Experiences

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

PhD student, 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. Zhao Yi, Brian Caffo, **Bingkai Wang**, R. Li Chiang-shan, and Xi Luo. A Whole-Brain Regression Method to Identify Individual and Group Variations in Functional Connectivity. *Brain and Behavior* (To appear). https://doi.org/10.1101/2020.01.16.909580.

2. **Bingkai Wang**, Xi Luo, Yi Zhao, Brian Caffo. Semiparametric Partial Common Principal Component Analysis for Covariance Matrices. *Biometrics* (2020). https://doi.org/10.1111/biom.13369.

3. Canto, M.I., Trindade, A.J., Abrams, J., Rosenblum, M., Dumot, J., Corbett, F.S., Diehl, D., Chak, A., Khara, H., McKinley, M. Shin, E.J., Waxman, I., Infantolino, A., Tofani, C., Samarasena, J., Chang, K., **Wang, B**., Goldblum, J., Voltaggio, L., Montgomery, E., Lightdale, C.J., Shaheen, N.J. Multifocal Cryoballoon Ablation for Eradication of Barrett's Esophagus-Related Neoplasia: A Prospective Multicenter Clinical Trial. *American Journal of Gastroenterology* (2020). doi: 10.14309/ajg.0000000000000822.

4. Yi Zhao, **Bingkai Wang**, Stewart Mostofsky, Brian Caffo, Xi Luo, Covariate Assisted Principal regression for covariance matrix outcomes, *Biostatistics* (2019). https://doi.org/10.1093/biostatistics/kxz057.

5. **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). https://doi.org/10.1111/biom.13062.

6. Paniz Charkhchi, **Bingkai Wang**, Brian Caffo and David M. Yousem. Bias in Neuroradiology Peer Review: Impact of a "Ding" on "Dinging" Others. *American Journal of Neuroradiology* (2018). https://doi.org/10.3174/ajnr.A5908.

Commentary

1. Michael Rosenblum, **Bingkai Wang**. The Critical Role of Statistical Analyses in Maximizing Power Gains from Covariate-Adaptive Trial Designs. *JAMA Network Open* (2019). doi:10.1001/jamanetworkopen.2019.0789.

2. **Bingkai Wang,** Elizabeth L. Ogburn, and Michael Rosenblum. Rejoinder to "Robustness of ANCOVA in randomized trials with unequal randomization" by Jonathan W. Bartlett. *Biometrics* (2019). https://doi.org/10.1111/biom.13182

Manuscripts

1. **Bingkai Wang**, Ryoko Susukida, Ramin Mojtabai, Masoumeh Amin-Esmaeili, and Michael Rosenblum. Model-Robust Inference for Clinical Trials that Improve Precision by Stratified Randomization and Adjustment for Additional Baseline Variables. *arXiv preprint.* https://arxiv.org/abs/1910.13954.

Honors and Awards

Distinguished student paper award, ENAR 2021.

Student paper award, the Statistical Meeting in Imaging 2020.

CERSI Scholarship, U.S. Food and Drug Administration 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

Semiparametric Partial Common Principal Component Analysis for Covariance Matrices. SMI, May 2020.

Model-Robust Inference for Clinical Trials that Improve Precision by Stratified Randomization and Adjustment for Additional Baseline Variables. ENAR, March 2020 and JSM, August 2020.

Clarifying How Adjustment for Prognostic Baseline Variables Leads to More Precision and Less Bias in Randomized Trials. ENAR, March 2018 and JSM, July 2019.