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Education

Ph.D., Statistics, Stanford University, 2017

Ph.D. Minor, Computer Science

Dissertation Title: Evaluating Diagnostics Under Dependency Constraints

Advisers: Lu Tian, Ingram Olkin

B.S., Mathematics, Stanford University

Current Position

Post-doctoral Research Associate

Department of Statistics, The Wharton School, Aug. 2018–Present

Department of Biostatistics, Harvard School of Public Health, Aug. 2017–Aug.2018

Adviser: Eric Tchetgen Tchetgen

Publications

- [1] Haben Michael, Suzanne Thornton, Minge Xie, and Lu Tian. Exact inference on the random-effects model for meta-analyses with few studies. *Biometrics*, 2018.
- [2] Eric J. Tchetgen Tchetgen, Haben Michael, and Yifan Cui. Marginal structural models for time-varying endogenous treatments: A time-varying instrumental variable approach. Technical report, Department of Statistics, The Wharton School, September 2018. arXiv:1809.05422.
- [3] Haben Michael, Lu Tian, and Musie Ghebremichael. The ROC curve for regularly measured longitudinal biomarkers. *Biostatistics*, page kxy010, 2018.
- [4] Haben Michael and Lu Tian. Discussion of “A risk-based measure of time-varying prognostic discrimination for survival models,” by C. Jason Liang and Patrick J. Heagerty”. *Biometrics*, 73(3), 2017.
- [5] Haben Michael, Yifan Cui, and Eric J. Tchetgen Tchetgen. Identification and estimation of linear marginal structural models for time-varying endogenous treatments: A time-varying instrumental variable approach. In progress, 2018.
- [6] Haben Michael, Yifan Cui, and Eric J. Tchetgen Tchetgen. Efficient and robust estimation of marginal structural models for time-varying endogenous treatments. In progress, 2018.

- [7] Yifan Cui, Haben Michael, and Eric J. Tchetgen Tchetgen. Estimation of failure time marginal structural models for time-varying endogenous treatments. In progress, 2018.
- [8] Haben Michael and Eric J. Tchetgen Tchetgen. Principled covariate adjustment for treatment comparisons in RCTs without blinding. In progress, 2018.
- [9] Joseph Makhema et al. Impact of a universal HIV test and treat strategy on population HIV incidence in a community-randomized trial. To appear in the New England Journal of Medicine, 2018.

Conference Invitations

Weighted K-Means Clustering with Dynamic Programming Solution.

Meta-Research Innovation Center at Stanford Forum
Stanford, CA, 2016

Estimating Marginal Structural Mean Models with Instrumental Variables (poster session).

Statistics Annual Winter Workshop 2019: Recent Advances in Causal Inference and Mediation Analysis and their Applications
Gainesville, FL, 2019

Instrumental Variable Estimation of a Cox Marginal Structural Model with Endogenous Time-Varying Exposure.

Recent advances in causal inference for survival analysis, ENAR
Philadelphia, PA, 2019

Referee Experience

The American Statistician, Journal of the Royal Statistical Society, Statistics in Medicine, Statistical Methods in Medical Research

Teaching (Stanford)

Instructor

Statistics 195, R Programming, 2014–2017

Teaching Assistant

Theory of Probability, Stochastic Process II, Unsupervised Learning II, Meta-analysis (occasional lecturing), Multivariate Analysis (occasional lecturing), Data Mining (occasional lecturing)

Statistics Department Teaching Assistant Award, 2013–14

References

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