Contact Information

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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
J.D., Yale Law School, 2010
B.S., Mathematics, Stanford University, 2004

Employment

Assistant Professor
Department of Mathematics & Statistics
University of Massachusetts at Amherst, Sept. 2019–present
Post-doctoral Research Associate
Department of Statistics, The Wharton School, Aug. 2018–Sept. 2019
Department of Biostatistics, Harvard School of Public Health, Aug. 2017–Aug.2018
Corporate Associate
Wachtell, Lipton, Rosen & Katz, Sept. 2010–June 2012

Invited Talks

Inference on the AUC for Clustered Data
UMass, Amherst Applied Math Seminar, Amherst, MA, 2019
Estimating MSM Parameters Using Instrumental Variables: Necessary Conditions and an Application.
UMass, Amherst Biostatistics Seminar, Amherst, MA, 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
Weighted K-Means Clustering with Dynamic Programming Solution.
Meta-Research Innovation Center at Stanford Forum
Stanford, CA, 2016

Referee Experience

The American Statistician, Journal of the Royal Statistical Society Series B and C, Biometrics, Statistics in Medicine, Statistical Methods in Medical Research

References

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Publications

[1] 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. Conditionally accepted at the Journal of American Statistical Assn., Theory & Methods Section, 2021.

[2] Haben Michael and Musie Ghebremichael. Corrected inference with Begg's test for publication bias. Under review at Statistical Methods for Medical Research, 2021.

[3] Yifan Cui, Haben Michael, and Eric J. Tchetgen Tchetgen. Instrumental variable estimation of the marginal structural Cox model for time-varying treatments. To appear in Biometrika, 2021.

[4] Haben Michael and Musie Ghebremichael. Power analysis of common tests for publication bias. In progress, 2021.

[5] Musie Ghebremichael and Haben Michael. Comparison of the binormal and Lehman receiver operating characteristic curves. Under review at Communications in Statistics, Simulation & Computation, 2021.

[6] Haben Michael and Lu Tian. The individual and populaiton AUCs for clustered data. In progress, 2021.

[7] Haben Michael. Analysis of the jackknife for inference on the AUC for clustered data. In progress, 2021.

[8] Joseph Makhema et al. Universal testing, expanded treatment, and incidence of HIV infection in Botswana. *New England Journal of Medicine*, 381(3):230–242, 2019.

[9] Haben Michael, Yifan Cui, and Eric J. Tchetgen Tchetgen. Efficient and robust estimation of marginal structural models for time-varying endogenous treatments. In progress, 2021.

[10] Haben Michael and Eric J. Tchetgen Tchetgen. Principled covariate adjustment for treatment comparisons in RCTs without blinding. In progress, 2021.

[11] 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.

[12] Haben Michael, Suzanne Thornton, Minge Xie, and Lu Tian. Exact inference on the random-effects model for meta-analyses with few studies. *Biometrics*, 2018.

[13] Haben Michael, Lu Tian, and Musie Ghebremichael. The ROC curve for regularly measured longitudinal biomarkers. *Biostatistics*, page kxy010, 2018.

[14] 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.

[15] Abraar Karan, Prashanth Somasundaram, Haben Michael, Aryan Shayegani, and Hylton Mayer. The effect of multimedia interventions on the informed consent process for cataract surgery in rural south india. *Indian Journal of Ophthalmology*, 62(2):171, 2014.