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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, 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

Presentations

London School of Economics Joint Econometrics and Statistics Seminar, February 2023 Pan-African Scientific Research Council, Abuja, Nigeria (virtual), Dec. 2022

UConn Statistics Seminar, Storrs, CT, Oct. 2022

UMass, Amherst, Applied Math Seminar, Amherst, MA, Oct. 2021

UMass, Amherst, Biostatistics Seminar, Amherst, MA, Nov. 2019

UCLA Biostatistics Seminar, Los Angeles, CA, April 2019

ENAR Philadelphia, PA, March 2019

Penn Center for Causal Inference Seminar, Philadelphia, PA, March 2019

University of Florida Biostatistics Seminar, Gainesville, FL, Feb. 2019

Meta-Research Innovation Center at Stanford Forum, Stanford, CA, Apr. 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

- Haben Michael, Yifan Cui, Scott Lorch, and Eric J. Tchetgen Tchetgen. Identification and estimation of linear marginal structural models for time-varying endogenous treatments: A time-varying instrumental variable approach, 2022. Under revision at the Journal of American Statistical Assn., Theory & Methods Section.
- [2] Haben Michael and Musie Ghebremichael. Corrected inference with Begg's test for publication bias. Under review at Biometrical Journal, 2022.
- [3] Yifan Cui, Haben Michael, and Eric J. Tchetgen Tchetgen. Instrumental variable estimation of the marginal structural Cox model for time-varying treatments. *Biometrika*, page asab062, 2021.
- [4] Haben Michael and Musie Ghebremichael. Power analysis of common tests for publication bias. In progress, 2022.
- [5] Musie Ghebremichael and Haben Michael. Comparison of the binormal and Lehman receiver operating characteristic curves. To appear in Communications in Statistics, Simulation & Computation, 2022.
- [6] Haben Michael and Lu Tian. The individual and population AUCs for clustered data. In progress, 2022.
- [7] Haben Michael. Analysis of the jackknife for inference on the AUC for clustered data. In progress, 2022.
- [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, 2022.

- [10] Haben Michael and Eric J. Tchetgen Tchetgen. Principled covariate adjustment for treatment comparisons in RCTs without blinding. In progress, 2022.
- [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*, 75(2):485–493, 2019.
- [13] Haben Michael, Lu Tian, and Musie Ghebremichael. The ROC curve for regularly measured longitudinal biomarkers. *Biostatistics*, 20(3):433–451, 2019.
- [14] Haben Michael and Lu Tian. Discussion of "A risk-based measure of timevarying 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.