ISABEL FULCHER

isabelfulcher@g.harvard.edu

EDUCATION

Harvard University, Department of Biostatistics Cambridge, MA
Doctoral Candidate, Biostatistics *February 2016 – Present*
Masters, Biostatistics *August 2014 – May 2016*

McGill University Montreal, QC
Bachelor of Arts and Science, Mathematics and Anthropology *2008 – 2012*

PROFESSIONAL EXPERIENCE & RESEARCH

Planned Parenthood League of Massachusetts Boston, MA
Statistical Consultant *August 2017 – Present*

D-tree International Zanzibar, Tanzania
A nonprofit organization that specializes in developing and supporting electronic clinical protocols that enable health workers worldwide to deliver high quality healthcare
Safer Deliveries Program *April – September 2017*

- The program aims to increase the number of health facility deliveries and reduce rates of maternal and neonatal mortality in Zanzibar
- Conducting research/evaluation question development, analysis planning, and applying statistical methods to assess the effectiveness of the program

Harvard University, Department of Biostatistics Cambridge, MA
Dissertation Research, supervised by Dr. Eric Tchetgen Tchetgen *January 2016 – Present*

- Currently developing methods to estimate causal effects on a network of interconnected individuals
- Completed first dissertation paper on estimation and identification of a causal indirect effect that is robust to unmeasured confounding of the exposure-outcome relationship

Applied Research Project, supervised by Dr. Bethany Hedt-Gauthier *June 2016 – March 2017*

- Worked with D-Tree International to assess effectiveness of a Maternal Health initiative on 10,000 births in rural Tanzania

Summer Research Project, supervised by Dr. Paige Williams *June 2015 – April 2016*

- Investigated issues that arise in survival data when conducting mediation analysis
- Applied methods to a cohort study of perinatally HIV-infected infants

ZS Associates Evanston, IL
A global management consulting firm specializing in marketing and sales strategy
Business Associate *September 2012 – July 2014*

- Led analysis, project planning, and deliverable creation for patient and physician market segmentations

TEACHING EXPERIENCE

D-tree International Zanzibar, Tanzania
Employee Stata Training, *Course organizer and lead instructor* *May 2017 – July 2017*

- Led an 8-week training course in statistics for employees at D-tree International and Zanzibar's Ministry of Health
- Provided trainees with the necessary skills to perform future statistical analyses in-house using

Stata software

University of Global Health Equity Kigali, Rwanda
Program Monitoring, Evaluation, and Research Methods, *Teaching Assistant* *January – May 2017*

Harvard T.H. Chan School of Public Health Boston, MA
ID 201, Core Principles of Biostatistics and Epidemiology for Public Health Practice
Head Teaching Assistant *August 2017 – Present*
Head Teaching Assistant *August – December 2016*
Teaching Assistant *August – December 2015*

Stata Orientation for Incoming Graduate Students, *Session Instructor* *August 2016, 2017*

HPM 543, Quantitative Methods in Program Evaluation, *Stata Support* *March – May 2017*

BIO 507, Methods for Monitoring and Evaluation, *Teaching Assistant* *January – March 2016*

AWARDS & ACHIEVEMENTS

Harvard University Certificate of Distinction in Teaching *2017*
- Recognized as an outstanding teaching assistant in the Department of Biostatistics 2016-2017

Harvard T.H. Chan School of Public Health Rose Traveling Fellowship *2017*
- Financial support for D-tree International research

Maternal Health Task Force at the Women and Health Initiative Travel Award *2017*
- Financial support for D-tree International research

Statistics in Epidemiology Young Investigator Award *2017*
- One of four graduate students awarded for best paper in Epidemiology and received financial support to present paper at the 2017 Joint Statistical Meetings

McGill University Dean's Honour List *2012*
McGill University Golden Key Society *2010, 2011*

PUBLICATIONS & PRESENTATIONS

Tchetgen Tchetgen, Eric J., **Fulcher, I.,** and Shpitser, I. (2017) Auto-G-Computation of Causal Effects on a Network. arXiv:1709.01577.

Fulcher, Isabel R., Tchetgen Tchetgen, E. J., & Williams, P. L. (2017). Mediation Analysis for Censored Survival Data Under an Accelerated Failure Time Model. *Epidemiology*, *28*(5), 660-666.

Fulcher, Isabel R., Tchetgen Tchetgen, E., and Williams, P.L. Mediation Analysis for Censored Survival Data under an Accelerated Failure Time Model. Joint Statistical Meetings, Baltimore, MD (2017).

Fulcher, Isabel R., Tchetgen Tchetgen, E., and Shpitser, I. The generalized front-door formula for identification of partial causal effects. ENAR Spring Meeting, Washington, DC (2017).

Fulcher, Isabel R., Tchetgen Tchetgen, E., and Williams, P.L. Mediation Analysis for Censored Survival Data under an Accelerated Failure Time Model. ENAR Spring Meeting, Austin, TX (2016).

SELECTED INVOLVEMENT

Biostatistics Student Committee, *Chair* *April 2017 – Present*
Biostatistics Student Consulting Center, *Consultant* *December 2016 – Present*
Biostatistics HIV Working Group, *Coordinator* *August 2016 – May 2017*

X-Cel Adult Education, *Math HiSET Tutor* *August 2015 – September 2017*

SKILLS & INTERESTS

Software: R, Stata, SAS, SPSS, Python, LaTeX, Microsoft Excel, and Microsoft PowerPoint
Interests: Triathlons, hiking, soccer, improv, and reading