

# ISABEL FULCHER

[isabelfulcher@g.harvard.edu](mailto:isabelfulcher@g.harvard.edu)

## EDUCATION

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### Harvard University, Department of Biostatistics

*Doctoral Candidate, Biostatistics*

*Masters, Biostatistics*

Cambridge, MA

*February 2016 – Present*

*August 2014 – May 2016*

### McGill University

*Bachelor of Arts and Science, Mathematics and Anthropology*

Montreal, QC

*2008 – 2012*

## PROFESSIONAL EXPERIENCE & RESEARCH

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### Planned Parenthood League of Massachusetts

*Statistical Consultant*

Boston, MA

*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

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### D-tree International

Zanzibar, Tanzania

*Employee Stata Training, Course organizer and lead instructor*

*May 2017 – July 2017*

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

software

<b>University of Global Health Equity</b> Program Monitoring, Evaluation, and Research Methods, <i>Teaching Assistant</i>	Kigali, Rwanda <i>January – May 2017</i>
<b>Harvard T.H. Chan School of Public Health</b> ID 201, Core Principles of Biostatistics and Epidemiology for Public Health Practice <i>Head Teaching Assistant</i> <i>Head Teaching Assistant</i> <i>Teaching Assistant</i>	Boston, MA <i>August 2017 – Present</i> <i>August – December 2016</i> <i>August – December 2015</i>
Stata Orientation for Incoming Graduate Students, <i>Session Instructor</i>	<i>August 2016, 2017</i>
HPM 543, Quantitative Methods in Program Evaluation, <i>Stata Support</i>	<i>March – May 2017</i>
BIO 507, Methods for Monitoring and Evaluation, <i>Teaching Assistant</i>	<i>January – March 2016</i>

## **AWARDS & ACHIEVEMENTS**

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<b>Harvard University Certificate of Distinction in Teaching</b> • Recognized as an outstanding teaching assistant in the Department of Biostatistics 2016-2017	<i>2017</i>
<b>Harvard T.H. Chan School of Public Health Rose Traveling Fellowship</b> • Financial support for D-tree International research	<i>2017</i>
<b>Maternal Health Task Force at the Women and Health Initiative Travel Award</b> • Financial support for D-tree International research	<i>2017</i>
<b>Statistics in Epidemiology Young Investigator Award</b> • One of four graduate students awarded for best paper in Epidemiology and received financial support to present paper at the 2017 Joint Statistical Meetings	<i>2017</i>
<b>McGill University Dean's Honour List</b>	<i>2012</i>
<b>McGill University Golden Key Society</b>	<i>2010, 2011</i>

## **PUBLICATIONS & PRESENTATIONS**

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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**

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<b>Biostatistics Student Committee, Chair</b>	<i>April 2017 – Present</i>
<b>Biostatistics Student Consulting Center, Consultant</b>	<i>December 2016 – Present</i>
<b>Biostatistics HIV Working Group, Coordinator</b>	<i>August 2016 – May 2017</i>

**SKILLS & INTERESTS**

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**Software:** R, Stata, SAS, SPSS, Python, LaTeX, Microsoft Excel, and Microsoft PowerPoint

**Interests:** Triathlons, hiking, soccer, improv, and reading