

KAITLYN G. FITZGERALD

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Department of Statistics
Northwestern University
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EDUCATION

- 2021 (expected) **Ph.D. Statistics**, Northwestern University, Evanston, IL
Dissertation: *Methods for Synthesizing and Translating Statistical Evidence in Education*
Committee: Elizabeth Tipton (*chair*), Larry Hedges, Steven Franconeri
Certificate in Teaching, Searle Center for Advancing Learning & Teaching
- 2018 **M.S. Statistics**, Northwestern University, Evanston, IL
- 2015 **B.S. Mathematics**, Olivet Nazarene University, Bourbonnais, IL
Summa cum laude, University Honors Program Graduate

FELLOWSHIPS, HONORS & AWARDS

- 2020 – 2021; University Fellowship, Northwestern University
2016 – 2017
- 2017 – 2020 Multi-disciplinary Program in Education Sciences (MPES) Fellowship,
U.S. Department of Education, Institute of Education Sciences.
- 2015 Award for Excellence and Meritorious Work in Mathematics,
Olivet Nazarene University (*top departmental award*)

TEACHING EXPERIENCE

- 2020 – 2021 **Graduate Teaching Mentor**, Teaching Certificate Program, Searle Center for
Advancing Learning and Teaching, Northwestern University (NU)
- 2018 – 2020 **Teaching Assistant**, NU Department of Statistics
STAT 202: Introduction to Statistics (*Fall 2019*)
STAT 302: Data Visualization (*Spring 2020*)
STAT 330: Applied Statistics for Research (*Fall 2018*)
- 2019 **Curriculum Development Graduate Assistant**, NU Department of Statistics
STAT 202: Introduction to Statistics (*Summer, Fall 2019*)
- 2019 **Co-Instructor & Course Designer**, Northwestern Prison Education Program,

Cook County Department of Corrections
Introduction to Social Statistics and Data Literacy (*Summer 2019*)

2019 **Graduate Assistant**, Meta-Analysis Training Institute, Loyola University

2018 – 2019 **Coordinated Learning Team (CLT) Instructor* & Individual Tutor**,
NU Department of Athletics.
MATH 220: Differential Calculus of One Variable Functions (*Winter 2019*)*
PSYCH 201: Statistical Methods in Psychology (*Summer 2019*)*
STAT 202: Introduction to Statistics (*Winter, Spring, Summer 2019*)*
STAT 210: Introductory Statistics for the Social Sciences (*Fall 2018*)
STAT 325: Survey Sampling (*Fall 2018*)
STAT 350: Regression Analysis (*Winter 2019*)

2018 – 2019 **Consultant / Facilitator**, IES Summer Training Institute: Cluster Randomized
Trials, Northwestern University

PUBLICATIONS

- 2021 Schauer, J.M., **Fitzgerald, K.G.**, Peko-Spicer, S., Whalen, M.C.R., Zejnullahi, R., & Hedges, L.V. An evaluation of statistical methods for aggregate patterns of replication failure. *Annals of Applied Statistics*, 15(1), 208-229.
- 2020 Tipton, E., Spybrook, J., **Fitzgerald, K.G.**, Wang, Q., Davidson, C. Towards a System of Evidence for All: Current Practices and Future Opportunities in 37 Randomized Trials. *Educational Researcher*. DOI:10.3102/0013189X20960686
- 2019 Miller, J.D., **Fitzgerald, K.G.**, Smith, A.L., & Young, S.L. Geophagy among a cohort of Kenyan women with mixed HIV status: a longitudinal analysis. *American Journal of Tropical Medicine & Hygiene*, 101(3), 654 – 660.

WORKING PAPERS AND BOOKS

- 2021 **Fitzgerald, K.G.**, & Tipton, E. Translation Science: Towards more evidence-based communication practices in education research. In preparation.
- 2021 **Fitzgerald, K.G.**, & Tipton, E. Communicating clearinghouse data: A statistical cognition experiment on education practitioners' understanding of forest plots. In preparation.
- 2021 **Fitzgerald, K.G.**, & Tipton, E. Pooling sampling variance estimates to improve properties of treatment effect estimators. In preparation.

- 2019 Ismay, C., Kim, A.Y., Kuyper, A.M., Tipton, E. & **Fitzgerald, K.G.**
Introduction to Statistics and Data Science: A modern dive into R and the
tidyverse. <https://nustat.github.io/intro-stat-ds/>

CONFERENCE PRESENTATIONS & INVITED TALKS

- 2020 Hill, A., Kolak, M., **Fitzgerald, K.** InspiRing InstRuction: A panel on teaching
#rstats for all audiences. Invited panelist, R-Ladies Chicago event, November
2020.
- 2020 **Fitzgerald, K.** Adjusting standard deviations for homogeneity of samples.
Poster presentation at the Society for Research on Educational Effectiveness
(SREE) annual conference, March 2020. (Cancelled due to COVID-19).
- 2019 **Fitzgerald, K.** What are we 95% confident about anyway? A software-
embedded curriculum for learning statistical inference. Presentation at
Association of Christians in the Mathematical Sciences bi-annual conference,
Indiana Wesleyan University, May 2019.
- 2018 **Fitzgerald, K.** Statistics for Social Good: Why your math degree is in demand
in social policy and international development. Invited talk at Olivet
Nazarene University, Department of Mathematics, October 2018.
- 2018 Blaushild, N., **Fitzgerald, K.**, & Kamel, A. Does AIT improve student
outcomes? An analysis of referrals, attendance, and grades. Presented to
stakeholders at Evanston Township High School, May 2018.

RESEARCH & PROFESSIONAL EXPERIENCE

- 2019 – present **Lab member**, Statistics for Evidence-Based Policy and Practice (STEPP)
Center, Northwestern University
- 2017 – present **Graduate Research Assistant**, Institute for Policy Research, Northwestern
University
- 2018 – 2019 **Statistical Consultant**, Young Research Group, Northwestern University
- 2015 – 2016 **Research Analyst**, Barna Group, Ventura, CA

LEADERSHIP & SERVICE

Volunteer mentorship, advising, and consulting

2020 – present **Correspondence Tutor**, Northwestern Prison Education Program
2019 – 2020 **AP Research Expert Advisor**, James B. Conant High School
2018 **Volunteer Statistical Consultant**, First Presbyterian Church of Evanston

Community Leadership & Service

2018 – 2020 **Small Group Leader**, NU Graduate Christian Fellowship
2017 – 2019 **Small Group Coordinator**, NU Graduate Christian Fellowship
2019 **Stewardship Task Force**, First Presbyterian Church of Evanston
2018 **Panelist**, InterVarsity Ethnic Reconciliation and Justice National Consultation,
 University of Chicago, May 2018
2017 **World Relief Volunteer**, First Presbyterian Church of Evanston

Departmental Service

2019 – 2020 **Speaker Series Coordinator**, STEPP Center

Referee service

Journal of the Association of Christians in the Mathematical Sciences
Journal of Research on Educational Effectiveness

Professional Society Membership

American Statistical Association
Association of Christians in the Mathematical Sciences
Mathematical Association of America
Society for Research on Educational Effectiveness