

KAITLYN G. FITZGERALD

October 2022

Department of Mathematics, Physics, & Statistics
Azusa Pacific University

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APPOINTMENTS

2021 – **Assistant Professor**, Department of Mathematics, Physics, & Statistics,
Azusa Pacific University, Azusa, CA

EDUCATION

2021 **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

2022 – 2023 Project NExT Fellow, Mathematical Association of America

2021 Young Alumni Award, Olivet Nazarene University

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

Azusa Pacific University, Department of Mathematics, Physics, & Statistics

2021 - Courses taught:

MATH 130: Introduction to Statistics (*F21, S22, F22*)

MATH 250: Data Analysis (*F22*)

PRMA 130: Introduction to Statistics (F21)
 MATH 361: Probability & Statistics I (F21, S22)
 MATH 362: Mathematical Statistics (F22)
 STAT 511: Applied Regression Analysis (S22)

Northwestern University

2018 – 2020 **Instructor & Course Designer**, Northwestern Prison Education Program,
 Cook County Department of Corrections
 Introduction to Social Statistics and Data Literacy (*Summer 2019*)
Curriculum Development Graduate Assistant, Department of Statistics
 STAT 202: Introduction to Statistics (*Summer, Fall 2019*)
Coordinated Learning Team (CLT) Instructor, 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*)
Teaching Assistant, Department of Statistics
 STAT 202: Introduction to Statistics (*Fall 2019*)
 STAT 330: Applied Statistics for Research (*Fall 2018*)

MENTORING & ADVISING

2022 – **Undergraduate Research Mentor**, CalSpace Grant, Azusa Pacific University
 2021 – **Learning Assistant Mentor**, Azusa Pacific University
 2020 – 2021 **Graduate Teaching Mentor**, Teaching Certificate Program, Northwestern
 University Searle Center for Advancing Learning and Teaching
 2019 – 2020 **AP Research Expert Advisor**, James B. Conant High School

PUBLICATIONS

2022 **Fitzgerald, K.G.**, & Tipton, E. The Meta-Analytic Rain Cloud Plot: A New
 Approach to Visualizing Clearinghouse Data. Forthcoming in *Journal for
 Research on Educational Effectiveness*. DOI: 10.1080/19345747.2022.2031366
 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.

- 2021 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*, 50(3), 145 – 156.
- 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

- 2022 **Fitzgerald, K.G.** Using Extant Data to Improve Estimation of the Standardized Mean Difference. Revise & resubmit.
- 2022 **Fitzgerald, K.G.**, & Tipton, E. A knowledge mobilization framework: Towards more evidence-based statistical communication practices in education research. Revise & resubmit.
- 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

- 2022 **Fitzgerald, K.G.** & Tipton, E. The Meta-Analytic Rain Cloud Plot: A New Approach to Visualizing Clearinghouse Data. Paper presentation at Society for Research Synthesis Methodology Annual Meeting, Portland, OR, July 2022.
- 2022 **Fitzgerald, K.G.** Data visualization tips and tricks: Teaching and learning how to be better communicators of data. Oral presentation at Association of Christians in the Mathematical Sciences bi-annual conference, Azusa Pacific University, June 2022.
- 2021 **Fitzgerald, K.G.** How statistics helps us be better stewards of information: Applications from social policy & global development. Invited talk at Olivet Nazarene University, Department of Mathematics, October 2021.
- 2021 **Fitzgerald, K.G.** Effective communication of meta-analytic data in education: Evidence from a statistical cognition experiment on data visualizations. Poster presentation at STEM Research Symposium, Azusa Pacific University, October 2021.

- 2021 **Fitzgerald, K.G.** & Tipton, E. Communicating clearinghouse data: A statistical cognition experiment on education practitioners' understanding of forest plots. Paper presentation at the Society for Research on Educational Effectiveness (SREE) annual conference, virtual, September 2021.
- 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 & CONSULTING

- 2019 – 2021 **Lab member**, Statistics for Evidence-Based Policy and Practice (STEPP) Center, Northwestern University
- 2019 **Graduate Assistant**, Meta-Analysis Training Institute, Loyola University
- 2018 – 2019 **Consultant / Facilitator**, IES Summer Training Institute: Cluster Randomized Trials, Northwestern University
- 2018 – 2019 **Statistical Consultant**, Young Research Group, Northwestern University
- 2017 – 2021 **Graduate Research Assistant**, Institute for Policy Research, Northwestern University
- 2015 – 2016 **Research Analyst**, Barna Group, Ventura, CA

LEADERSHIP & SERVICE

University Leadership & Service

2022 - **General Education Assessment Committee**, Azusa Pacific University
 2022 – 2023 **Faculty Learning Community: Faith Integration & Race/Ethnicity**, Azusa Pacific University

Departmental Leadership & Service

2022 - **Recruitment Task Force**, Azusa Pacific University
 2022 - **Data Science Minor Coordinator**, Azusa Pacific University
 2021 - **Introduction to Statistics Coordinator**, Azusa Pacific University
 2019 – 2020 **Speaker Series Coordinator**, STEPP Center, Northwestern University

Referee service

Journals: *Journal of the Association of Christians in the Mathematical Sciences*
Journal of Research on Educational Effectiveness
Journal of Statistics and Data Science Education
 Conferences: *Research Methods Section, Society for Research on Educational Effectiveness*

Professional Society Membership

American Statistical Association (ASA)
 Association of Christians in the Mathematical Sciences (ACMS)
 Mathematical Association of America (MAA)
 Society for Research on Educational Effectiveness (SREE)
 Society for Research Synthesis Methodology (SRSM)

Volunteer mentoring, judging, & consulting

2022 **Judge**, Undergraduate Student Project Competition (USPROC), Consortium for the Advancement of Undergraduate Statistics Education (CAUSE) & The American Statistical Association (ASA)
 2022 **Judge**, STEM Research Symposium, Azusa Pacific University
 2020 – 2021 **Correspondence Tutor**, Northwestern Prison Education Program
 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