KAITLYN G. FITZGERALD

January 2023

Department of Mathematics, Physics, & Statistics Azusa Pacific University

2023 - 2024

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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: <i>Methods for Synthesizing and Translating Statistical Evidence in Education</i> Committee: Elizabeth Tipton <i>(chair)</i> , 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, HO	ONORS & AWARDS
2023 – 2024	Faculty Fellow, Jr. Faculty Mentoring Program, Azusa Pacific University
2022 – 2023	Project NExT Fellow, Mathematical Association of America
2021	Young Alumni Award, Olivet Nazarene University
2020 – 2021; 2016 – 2017 2017 – 2020	University Fellowship, Northwestern University
	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)
GRANT FUNDING	

Principal Investigator, Statistical cognition and visualization of meta-analytic

data for education research. Faculty Research Council Grant, Azusa Pacific University. Funding: \$6,000.

TEACHING

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

2021 - Courses taught:

MATH 130: Introduction to Statistics (F21, S22, F22, S23)

MATH 250: Data Analysis (F22)

PRMA 130: Introduction to Statistics (F21)

MATH 361: Probability & Statistics I (F21, S22, S23)

MATH 362: Mathematical Statistics (F22)

STAT 511: Applied Regression Analysis (S22, S23)

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 – 2023	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

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2022	Fitzgerald, K.G., & Tipton, E. The Meta-Analytic Rain Cloud Plot: A New Approach to Visualizing Clearinghouse Data. Forthcoming in <i>Journal for Research on Educational Effectiveness</i> . 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. <i>Annals of Applied Statistics</i> , <i>15</i> (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. <i>Educational Researcher</i> , <i>50</i> (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. <i>American Journal of Tropical Medicine & Hygiene, 101</i> (3), 654 – 660.

WORKING PAPERS AND BOOKS

2019

2022	Fitzgerald, K.G., & Tipton, E. A knowledge mobilization framework: Towards
	more evidence-based statistical communication practices in education
	research. Conditional acceptance.

2022 **Fitzgerald, K.G**. Using Extant Data to Improve Estimation of the Standardized Mean Difference. Revise & resubmit.

Ismay, C., Kim, A.Y., Kuyper, A.M., Tipton, E. & **Fitzgerald, K.G.**Introduction to Statistics and Data Science: A moderndive 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.

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

2022	External Evaluator , NSF Grant, Improving Evaluations of R&D in STEM Education, Northwestern University
2022	External Evaluator , NSF Grant, Modern Meta Analysis Research Institute, Georgia State University

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

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2022 – 2023	Math & Physics Fellowship Task Force, Azusa Pacific University
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