Katherine Jane Strickland

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EDUCATION AND TRAINING

2026 Postdoctoral Researcher, University of Florida
Developing methods and tools for the design and analysis of longitudinal experimental and quasi-experimental studies through Monte Carlo simulations under Dr. Wei Li

2024 Ph.D., Quantitative Methods, University of Pennsylvania
Dissertation: *Methodological Considerations in Observational Studies of Panel Data: Applications to the Gifted and Talented Program in New York City*
(awarded with distinction)
Committee: Wendy Chan, Michael Gottfried, Robert Boruch, Michael Rovine

2023 M.A., Statistics and Data Science, University of Pennsylvania
Thesis: *Exploring Heterogeneous Treatment Effects with Bayesian Additive Regression Trees*
Supervisor: Dylan Small

2019 M.A., Quantitative Methods, University of Texas at Austin
2013 B.A., Business, University of Notre Dame

PUBLICATIONS

1. **Strickland, K. J.**, Chan, W., Gottfried, M. (2026) Longitudinal Effects of NYC's Gifted and Talented Program: Evidence from a Staggered Difference-in-Differences Approach *(Revise and Resubmit, Educational Evaluation and Policy Analysis)*
2. **Strickland, K. J.**, Chan, W. (2026) Modeling Demographic Change in NYC's Gifted Education Program Using the Representation Index *(Revise and Resubmit, Gifted Child Quarterly)*
3. **Strickland, K. J.**, Chan, W., Gottfried, M., Huang, J., & Hildreth, D. (2024) Exploring the Impact of New York City's Gifted and Talented Program: A Matched Comparison Study. *AERA Open*, *10*. *https://doi.org/10.1177/23328584241299346*
4. Chan, W., Oh, J., & **Wilson, K. J.** (2023) Redefining Populations of Inference for Generalizations from Small Studies. *Journal of Research on Educational Effectiveness*. *https://doi.org/10.1080/19345747.2023.2290546*

UNDER REVIEW

1. Chan, W., Oh, J., & **Strickland, K. J.** (2026) The Energy Distance Between Covariate Distributions and Assessments of Generalization *(Revise and Resubmit, Journal of Research on Educational Effectiveness)*
2. Gottfried, M., **Strickland, K.J**., Kreda, S., Cox, B. (2025) Predicting Special Education Placement Environments through Multilevel Logistic Regression *(Under Review, Teachers College Record)*

WORKING PAPERS

Strickland, K.J., Hill, J., & Li, W. Estimating Heterogeneous Treatment Effects of the Gifted and Talented Program Using Bayesian Additive Regression Trees

Strickland, K.J., Cassidy, M., Li, W., & Gao, X. A Staggered Difference-in-Differences Analysis of School Achievement and Performance after Gifted Program Adoption

Strickland, K.J., Chan, W., & Gottfried, M. Using Regression Trees to Model Geographic and Demographic Patterns in Gifted Program Availability

PRESENTATIONS

2026

Strickland, K.J. Where the Advanced Educational Opportunities Are: Geographic and Demographic Patterns in NYC Gifted and Talented Program Access and Availability. Paper to be presented at Association for Education Finance and Policy Conference. Chicago, IL

Gottfried, M., **Strickland, K.J.,** Peters, S. Who are Their Schoolmates? Exploring Differences and Disparities in School Composition for Students with Disabilities in NYC. Paper to be presented at Association for Education Finance and Policy Conference. Chicago, IL

2025

Li, W., **Strickland, K.J**. Power Analysis for Difference-in-Differences Studies with Staggered Treatment Adoption. Paper presented at the Annual Florida Educational Research Association Conference. Fort Myers, FL.

Strickland, K.J. The Impact of NYC's Gifted and Talented Program on Middle and High School Attendance and Achievement. Paper presented at the Association for Public Policy Analysis Meeting. Seattle, WA.

Chan, W., Oh, J., **Strickland, K**. The Energy Distance Between Covariate Distributions and Assessments of Generalization. Paper presented at the Society for Research on Educational Effectiveness Annual Meeting. Chicago, IL.

Li, W. **Strickland, K**., Xueyan Gao, X. Huang, J. Designing Longitudinal Quasi-Experimental Studies Using Staggered Difference-in-Differences: Estimator Selection, Software Implementation, and Sample Size Planning. Paper presented at the Society for Research on Educational Effectiveness Annual Meeting. Chicago, IL.

Li, W., Huang, J., Zhang, Q, Konstantopoulos, S. & **Strickland, K.** Using Real-Data Simulation Methods to Estimate Statistical Power for Longitudinal Experimental Studies. In-the-pipeline poster presented at the Society for Research on Educational Effectiveness Annual Meeting. Chicago, IL.

Gottfried, M., **Strickland, K.J**. & Kreda, S. Who Are their Schoolmates? Exploring Differences and Disparities in School Composition for Students with Disabilities in NYC. Paper presented at the Society for Research on Educational Effectiveness Annual Meeting. Chicago, IL.

Strickland, K.J. & Chan, W. Overlapped *but Overlooked: Estimating the Effects of NYC's Gifted and Talented program for Underserved Students in the Face of Covariate Imbalance*. In-the-pipeline poster presented at the Society for Research on Educational Effectiveness Annual Meeting. Chicago, IL.

Strickland, K.J. & Chan, W. The Impact of New Admissions Policies on the Demographic Representation of New York City's Gifted and Talented Program. Paper presented at the American Educational Research Association Annual Meeting. Denver, CO.

Chan, W., Oh, J., & **Wilson, K. J.** The Implications of Covariate Distributional Differences on Generalizability Statistics. Poster presented at the American Educational Research Association Annual Meeting. Denver, CO.

2024

Strickland, K.J. & Chan, W. Which Students Benefit from New York City's Gifted and Talented Program? Paper presented at the American Educational Research Association Annual Meeting. Philadelphia, PA.

Strickland, K.J. & Chan, W. G&T Deserts. Measuring the Effects of Gifted and Talented Availability Using Synthetic Controls. Roundtable presented at the American Educational Research Association Annual Meeting. Philadelphia, PA.

2022

Chan, W., Oh, J., & **Wilson, K.J.** Redefining Populations of Inference for Generalization. Paper presented at the Society for Research on Educational Effectiveness. Arlington, VA.

FELLOWSHIPS, AWARDS AND HONORS

2020	Modern Meta Analysis Research Institute
2019	Dean's Fellowship, full funding for Doctoral Studies, University of Pennsylvania
2017	Bascombe Royall and Frances Fallon Fuller Scholarship, University of Texas at Austin

TEACHING

University of Florida

2026	Multilevel Modeling (EDF 7474), Teaching Assistant

University of Pennsylvania

2024	Introductory Statistics for Educational Research (EDUC 6667), Faculty Instructor
2020-2023	Data Processing and Analysis (EDUC 6625), Teaching Assistant
2019-2020	Wharton Moneyball Academy, R Programming Instructor

University of Texas at Austin

2018-2019 Strategic Learning for the 21st Century (EDP 304), Graduate Instructor

KIPP Austin Public Schools
2013-2015 Third Grade Teacher at KIPP Public Schools (Austin, Texas)

AmeriCorps New York City Teaching Fellows
2015-2017 Special Education Teacher at P.S. 17X (Bronx, NYC)

ACADEMIC COURSEWORK

Bayesian Statistics, Causal Inference, Machine Learning, Nonparametric Statistics, Factor Analysis, Structural Equation Modeling, Complex Models, Multilevel Modeling, Hierarchical Modeling, Big Data Analytics, Time Series Forecasting, Data Processing and Analysis, Survey Methods & Design, Policy Research, Randomized Trials and Experiments, Psychometrics, Measurement & Assessment, Regression and Analysis of Variance

TECHNICAL SKILLS

R, STATA, Python, GitHub, SAS, SPSS

PROFESSIONAL MEMBERSHIPS

American Educational Research Association (AERA), Society for Research on Educational Effectiveness (SREE), Association for Public Policy Analysis and Management (APPAM)