DAVID LOEB

Ph.D. Candidate | Education Policy
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EDUCATION

University of Pennsylvania 2022 – Present
Ph.D., Education Policy, *Institute of Education Sciences Predoctoral Fellow* *Philadelphia, PA*
A.M., Statistics and Data Science
Advisor: Dr. Ericka Weathers

Temple University August 2014
B.A., Psychology, *magna cum laude* *Philadelphia, PA*
Honors Thesis Advisor: Dr. Kathy Hirsh-Pasek

ACADEMIC JOURNAL ARTICLES

Weathers, E. S., Muñoz, I. G., and **Loeb, D**. (2023). Absence Unexcused: Using Administrative Data to Explore Patterns and Predictors of Habitual Truancy in Pennsylvania. *The High School Journal, 106*(3), 166-190. https://doi.org/10.1353/hsj.2023.a930442

Under Review

Lillard, A. S., **Loeb, D**., Manship, K., Berg, J., and Daggett, E. A Nationwide RCT of Montessori Public Preschool. Revise & Resubmit at *Proceedings of the National Academy of Sciences (PNAS)*.

PAPERS IN PROGRESS

Loeb, D and Pullom, K. The Impact of the Medicaid "Free Care" Reversal on School District Finances and Staffing.

Loeb, D and Wodicka, C. Do School Finance Reforms Reduce Non-Education State Spending?

Loeb, D, Asher, C. A., and Jacob, R. T. Missing Data Handling in Education RCTs: A Practitioner's Guide.

Loeb, D. School District Demographic Change and the Willingness to Fund Local Public Schools.

ACADEMIC CONFERENCE PRESENTATIONS

*presenting author

Loeb, D.*, and Pullom, K. (2025, November). The Impact of the Medicaid "Free Care" Reversal on School District Finances and Staffing. Paper accepted to the Association for Public Policy Analysis and Management Fall Research Conference, Seattle, WA.

Loeb, D.*, Lillard, A. S., Manship, K., Daggett, E., and Berg, J. A National RCT of the Impact of Public Montessori Schools on Early Childhood Outcomes. (2025, October). Paper accepted to the Society for Research on Educational Effectiveness Annual Conference, Chicago, IL.

Lillard, A. S., Lachowicz, M., Berg, J., Manship, K., Daggett, E., and **Loeb, D**.* (2025, April). The Impact of the Montessori Early Childhood Model in PK4 and Kindergarten. Paper presented at the American Education Research Association Annual Meeting, Denver, CO.

Weathers, E. S., **Loeb, D**., and Rock, R. (2025, April). Typologizing Truancy Policy: A Cross-State Critical Analysis of Truancy Policies Using Mixed Methods. Roundtable at the American Education Research Association Annual Meeting, Denver, CO.

Loeb, D..* and Pullom, K. (2025, March) . Medicaid "Free Care" Reversal's Impact on District Staffing and Finances. Paper presented at the Association for Education Finance and Policy Annual Conference, Washington, DC.

Loeb, D..* (2024, November) . Segregation and Willingness to Fund Public Schools at the Local and State Levels. Paper presented at the Association for Public Policy Analysis and Management Fall Research Conference, National Harbor, MD.

Loeb, D..* (2024, September) . Identifying Curriculum and Book Restriction Activity Using School Board Meeting Minutes. Poster presented at the Society for Research on Educational Effectiveness Annual Conference, Baltimore, MD.

Loeb, D..* (2024, April) . The Role of Home Values in Linking Segregation and School District Funding Disparities. Paper presented at the American Education Research Association Annual Meeting, Philadelphia, PA.

Weathers, E. S., Muñoz, I. G., and **Loeb, D.**.* (2023, March) . Absence Unexcused: Using Administrative Data to Explore Patterns and Predictors of Habitual Truancy in Pennsylvania. Poster presented at the Association for Education Finance and Policy Annual Conference, Denver, CO.

POLICY REPORTS & RESEARCH BRIEFS

Loeb, D.., Pullom, K., and Bowden, A. B. (2024) . The Benefits of Adequacy: Estimating the Economic Impacts of Pennsylvania's Basic Education Funding Commission Proposal. Center for Benefit-Cost Studies of Education. https://www.cbcse.org/publications/pa2024

Weathers, E. S. and **Loeb, D**. (2022) . The Availability of Truancy Data Across States. *The Learning Curve*, Urban Institute. https://www.urban.org/research/publication/availability-truancy-data-across-states

SOFTWARE

{edid}: Efficient difference-in-differences and event study estimators. R package. https://github.com/david-loeb/edid

Missing Data Scenarios in RCTs. Shiny web application. https://davidloeb.shinyapps.io/missing-data

TEACHING

Modern Missing Data Handling for Policy Research and RCTs. (2025, May) . Workshop delivered to the University of Michigan Youth Policy Lab.

Sociology of Education (EDUC 5782). (2024, Fall) . Teaching Assistant. University of Pennsylvania.

Web Scraping with Python. (2023, March) . Workshop delievered to doctoral students at The Pennsylvania State University.

PRESS COVERAGE

Graham, K. A. (2024, June) . How Pa. could benefit from $5B proposed boost to schools, according to Penn researchers. *The Philadelphia Inquirer*

Mezzacappa, D. (2024, June) . More money for schools in Pennsylvania will yield thousands more high school graduates, report finds. *Chalkbeat Philadelphia*

DeNardo, M. (2024, June) . Penn analysis supports state commission's recommendation for boost in Pa. education funding. *KYW Newsradio*

Hill, C. (2024, June) . Proposed $5B funding formula would help struggling schools in Pennsylvania, new report says. *The Philadelphia Tribune*

Caruso, S. (2024, June) . A big education fight stands in the way of a Pa. budget deal. *Spotlight PA*

PROFESSIONAL RESEARCH & POLICY EXPERIENCE

American Institutes for Research
IES Predoctoral Research Apprentice

2024 – 2025
Arlington, VA

· Created primary statistical impact models for a national waitlist control study of public Montessori preschool
· Developed sensitivity models that addressed potential sources of bias including differential consent and attrition
· Developed algorithms to clean data that caught previously undetected errors in data entry and test administration
· Analyzed data and conducted research to aid the development of a child care cost model for the State of Massachusetts

Children First
Research Associate

2016 – 2021
Philadelphia, PA

· Conducted research for the premier education and child policy advocacy organization in southeastern Pennsylvania
· Produced research reports examining education and other child-focused policy issues using administrative data
· Presented research findings in public forums, press conferences, and meetings with policymakers
· Provided data preparation and analysis support for the organization's day-to-day advocacy work and grant applications

TECHNICAL SKILLS

Computer Languages	*Strong Experience*: R, Python, LaTeX, Markdown *Some Experience*: SQL, Shell/Bash, JavaScript, CSS, HTML, YAML
Software	Stata, SAS, Mplus, Blimp, Quarto, Shiny, Jupyter, Excel
Statistical & Research Methods	Econometrics, Quasi-Experimental Design, Multilevel Modeling, Missing Data Modeling, Predictive Modeling, Natural Language Processing, Geospatial Analysis