

Marcus R. Waldman

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Education

Harvard Graduate School of Education, Cambridge, MA 2020 *Ed.D.*, Quantitative Policy Analysis in Education
Teachers College, Columbia University, New York, NY 2013 *M.S.*, Applied Statistics
University of Colorado at Boulder, Boulder, CO 2008 *B.S.*, Applied Mathematics

Appointments

Research Associate 2024 – Present University of Colorado Anschutz Medical Campus, Aurora, CO
Research Assistant Professor 2022–2024 University of Nebraska Medical Center, Omaha, NE
Postdoctoral Researcher 2020–2022 University of Nebraska Medical Center, Omaha, NE

Publications

IN PREPARATION

Waldman, M. R. (in preparation). *arccopt*: An R package for robust local optimization via adaptive regularization with cubics.

Waldman, M. R., Hagen-Lillvik, S., Bosma, G., Schmiege, S., & Hernandez, T. (in preparation). Bayesian latent growth curve modeling for repeated blood assay measures: Towards addressing measurement error in biomarker research.

Waldman, M. R. (in preparation). Information criteria for multiply-imputed data: A principled approach for complete-data replication.

Waldman, M. R., Raikes, A., & Fritz, L. (in preparation). Quasi-experimental evidence for average treatment on the treated effects of Colorado’s Universal Pre-Kindergarten Program on child development and early learning.

SUBMITTED

Seiden, J., Eekhout, I., ..., **Waldman, M.**, ..., Janus, M. (submitted). Connecting the dots in population-level child development monitoring: The GSED Household Form.

Asdigian, N., ..., **Waldman, M. R.**, ..., Weible, E. (submitted). A self-report measure of reflective supervision: Variability and perceptions of repeated measures.

UNDER REVIEW

Bowler, F., Hebert, S., Hallmark, B., **Waldman, M.**, & Sarabia, C. (under review). Essential pre-licensure psychomotor nursing skills: A Delphi study.

Akhavien, K., **Waldman, M. R.**, & Raikes, A. R. (under review). Tracking socioeconomic disparities in early childhood: A population-based study of Nebraskan children from 0-5.

PUBLISHED

Waldman, M. R., Hepworth, K., Johnson, J., Tourek, K. M., Jones, K. J., Garcia, Y. E., et al. (2025). Validation of the Kidsights Measurement Tool: A parent-reported instrument to track children’s development at the population level. *PLoS ONE*, 20(6), e0324082. <https://doi.org/10.1371/journal.pone.0324082>. PMID: 40569984

Merchant, A. N., Kaur, R., ... **Waldman, M.**, ... Lancaster, G. (2025). Feasibility and acceptability of implementing the Global Scales for Early Development (GSED) package for children 0–3 years across three countries. *Pilot and Feasibility Studies*, 11, 18. <https://doi.org/10.1186/s40814-024-01583-4>. PMID: 39953573

DeJoseph, M. L., Walasek, N., ..., **Waldman, M. R.**, ..., Fisher, P. (2025). Hidden dynamics of economic hardship: Characterizing economic unpredictability and its role on self-regulation in early childhood. *Development and Psychopathology*, 1–16. <https://doi.org/10.1017/S0954579425100771>. PMID: 41157842

van Buuren, S., Eekhout, I., McCray, G., Lancaster, G. A., **Waldman, M. R.**, McCoy, D. C., Gladstone, M., Cavallera, V., Dua, T., & Black, M. M. (2024). Enhancing comparability in early child development assessment with the D-score. *International Journal of Behavioral Development*, 49(4), 348–364. <https://doi.org/10.1177/01650254241294033>

Waldman, M. R., Raikes, A., Hepworth, K., Black, M. M., Cavallera, V., Dua, T., Janus, M., Martin-Herz, S. P., McCoy, D. C., & Weber, A. M. (2024). Psychometrics of psychosocial behavior items under age 6 years: Evidence from Nebraska, USA. *Infant Mental Health Journal*, 45(1), 56–78. <https://doi.org/10.1002/imhj.22090>. PMID: 38053329

Raikes, A., Sayre Mojangani, R., Heinzl-Nelson Alvarenga Lima, J., Davis, D., Cassell, C., **Waldman, M.**, & Escalante, E. (2023). Profiles of quality in three distinct early childhood programs using the Brief Early Childhood Quality Inventory (BEQI). *International Journal of Early Childhood*, 1–26. <https://doi.org/10.1007/s13158-022-00344-9>. PMID: 36685325

Cavallera, V., Lancaster, G., Gladstone, M., Black, M. M., McCray, G., Nizar, A., ... **Waldman, M. R.** ... & Janus, M. (2023). Protocol for validation of the Global Scales for Early Development (GSED) for children under 3 years of age in seven countries. *BMJ Open*, 13(1). <https://doi.org/10.1136/bmjopen-2022-062562>. PMID: 36693690

McCoy, D. C., Seiden, J., Cuartas, J., Pisani, L. **Waldman, M.** (2022). Estimates of a multidimensional index of nurturing care in the next 1000 days of life for children in low-income and middle-income countries: A modelling study. *The Lancet Child & Adolescent Health*, 6(5), 324–334. [https://doi.org/10.1016/S2352-4642\(22\)00076-1](https://doi.org/10.1016/S2352-4642(22)00076-1). PMID: 35429451

Erbetta, K., Almeida, J., & **Waldman, M. R.** (2022). Racial, ethnic and nativity inequalities in gestational diabetes mellitus: the role of racial discrimination. *SSM-Population Health*, 19, 101176. <https://doi.org/10.1016%2Fj.ssmph.2022.101176>. PMID: 35928172

McCoy, D. C., Seiden, J., **Waldman, M. R.**, Fink, G. (2021). Measuring early childhood development: Considerations and evidence regarding the caregiver-reported early development instruments (CREDI). *Annals of New York Academy of Sciences*. <https://doi.org/10.1111/nyas.14598>. PMID: 33847375

Waldman, M. R., Seiden, J., Cuartas, J., McCoy, D. C., & Fink, G. (2021). Validation of motor, cognitive, language, and socio-emotional subscales using the Caregiver Reported Early Development Instruments: An application of multidimensional item factor analysis. *International Journal of Behavioral Development*. <https://doi.org/10.1177/01650254211005560>

Waldman, M. R. (2019). Advancing multiple imputation for latent profile analysis. *Multivariate Behavioral Research*, 1–2. <https://doi.org/10.1080/00273171.2018.1562324>. PMID: 30888201

Sattler, L. J., Thomas, K. A., Vaughn, M. G., Almeida, J., White, L. A., & **Waldman, M. R.** (2019). Community matters: GxE interactions predicting childhood aggression and violent behavior. *Journal of Criminal Justice*, 61, 58–71. <https://doi.org/10.1016/j.jcrimjus.2019.03.002>

Bright, M. A., Lynne, S. D., Masyn, K. E., **Waldman, M. R.**, Graber, J., & Alexander, R. (2019). Association of Friday school report card release with Saturday incidence rates of agency-verified physical child abuse. *JAMA Pediatrics*, 173(2), 176–182. <http://doi.org/10.1001/jamapediatrics.2018.4346>. PMID: 30556830

McCoy, D. C., **Waldman, M.**, & Fink, G. (2018). Measuring early childhood development at a global scale: Evidence from the Caregiver-Reported Early Development Instruments. *Early Childhood Research Quarterly*, 45, 58–68. <http://doi.org/10.1016/j.ecresq.2018.05.002>

TECHNICAL REPORTS

Murnane, R. J., **Waldman, M. R.**, Willett, J. B., Bos, M. S., & Vegas, E. (2017). The consequences of educational voucher reform in Chile. *National Bureau of Economic Research Working Paper Series*, No. 23550. <http://doi.org/10.3386/w23550>

Conference Presentations

Hallmark, B., Hebert, S., Bowler, F., **Waldman, M.**, & Sarabia, C. (2026, January). *Essential or non-essential: Pre-licensure nursing psychomotor skills for entering nursing practice: A Delphi study* [Conference presentation]. International Meeting on Simulation in Healthcare (IMSH), San Antonio, TX, United States.

Bowler, F., Hallmark, B., Hebert, S., **Waldman, M.**, & Sarabia, C. (2025). *Bridging the gap: Identifying key psychomotor skills in nursing education* [Conference presentation]. National League for Nursing (NLN) Education Summit, Orlando, FL, United States. <https://www.nln.org/2025NLNSummit>

Waldman, M. (2018, October). *Advancing multiple imputation for latent profile analysis* [Poster presentation]. Society for Multivariate and Experimental Psychology, Albuquerque, NM, United States.

Waldman, M. (2018, September). *Advancing multiple imputation for latent profile analysis* [Conference presentation]. Developmental Methods, Whitefish, MT, United States.

Waldman, M. (2018, May). *The nonparametric bootstrap as an alternative for the estimation of mixture models with external variables* [Poster presentation]. Modern Modeling Methods (M3), University of Connecticut, Storrs, CT, United States.

Waldman, M. (2016, May). *Principal stratification when the intermediate variable is continuous and measured with error* [Conference presentation]. Modern Modelling Methods (M3), University of Connecticut, Storrs, CT, United States.

Masyn, K., & **Waldman, M.** (2016, May). *Latent class covariate balancing for causal inference* [Conference presentation]. Modern Modelling Methods (M3), University of Connecticut, Storrs, CT, United States.

Murnane, R. J., **Waldman, M.**, Willett, J. B., Bos, S., & Vegas, E. (2016, April). *Heterogeneity in student and school achievement trends after the implementation of the school voucher reform policy in Chile* [Conference presentation]. Annual Meeting of Society for Research on Educational Effectiveness, Washington, DC, United States.

Waldman, M. (2015, April). *Omitting time-varying confounders when predicting growth trajectories: A case study* [Electronic poster presentation]. Annual Meeting of the National Council on Measurement in Education, Chicago, IL, United States.

Waldman, M. (2014, April). *Learning patterns among disadvantaged students in the United States* [Poster presentation]. Annual Meeting of the National Council on Measurement in Education, Philadelphia, PA, United States.

Waldman, M., Johnson, M., & Lee, Y.-S. (2013, July). *Extending the DINA model to incorporate continuous and discrete covariates using linking functions: Model development, parameter estimation, and applications* [Conference presentation]. Annual Psychometric Society Meeting, Arnhem, The Netherlands.

Park, Y. J., Johnson, M., Lee, Y.-S., Sachdeva, R., **Waldman, M.**, & Zhang, J. (2013, April). *An MDS approach for investigating students' cognitive weaknesses and strengths on the TIMSS 2007 mathematics assessment* [Conference presentation]. Annual Meeting of the American Educational Research Association (AERA), San Francisco, CA, United States.

Waldman, M. (2008, April). *A numerical model performance comparison between a square-to-hemisphere and cubed sphere projection on a toroidal interconnect architecture* [Conference presentation]. Society for Industrial and Applied Mathematics (SIAM) Conference on Parallel Processing for Scientific Computing, Atlanta, GA, United States.

Funding & Fellowships

2022–2023 Conrad N. Hilton Foundation. “RAPID-EC California”, University of Nebraska Medical Center. \$57,318. Role: Subrecipient Principal Investigator.

Teaching Experience

Instructor, Fundamentals of Statistical Literacy (online) 2024 – Present *University of Colorado Anschutz Medical Campus, Aurora, CO*

Instructor, S-090A1: Latent Variable Analysis (Part 1) Spring 2020 *Harvard Graduate School of Education, Cambridge, MA*

Teaching Fellow, STAT-151: Multilevel and Longitudinal Models Fall 2016 *Department of Statistics, Harvard University, Cambridge, MA*

Teaching Fellow, S-052: Applied Data Analysis Spring 2016 *Harvard Graduate School of Education, Cambridge, MA*
Teaching Fellow, S-510D: Research Schools Practicum Spring 2016 *Harvard Graduate School of Education, Cambridge, MA*
Teaching Fellow, H-156: Research Schools Fall 2014 – Spring 2015 *Harvard Graduate School of Education, Cambridge, MA*
Teaching Assistant, HUDM 5122: Applied Regression Analysis Spring 2013 *Teachers College, Columbia University, New York, NY*

Honors and Awards

Years	Award
2013–2020	Presidential Scholar, Harvard University
2014	Harvard Graduate School of Education Summer Research Grant
2010	Project GRAD Exemplary Teacher Award
2009	Understanding by Design Stage I Curriculum Expert
2008	Honorable Mention in the Mathematical Contest in Modeling
2005–2008	College of Engineering Dean’s List