

Emanuele Bardelli

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Education

University of Michigan

Ann Arbor, MI

PhD in Educational Studies

2016–2022

Dissertation Committee: Dr. Matthew Ronfeldt (chair), Dr. Brian Jacob (cognate), Dr. Deborah Ball, Dr. Susan Dynarski

California State University, Los Angeles

Los Angeles, CA

Master's of Arts in Education

2020–2021

Concentration in Mathematics and Science Teaching

Single Subject Teaching Credential: K-12 Mathematics

Thesis: *The Effects of the Classroom Assessment Environment on Student Self-efficacy, Motivation, and Achievement Goals*—Advisors: Dr. John Shindler and Dr. A.Dee Williams

Università Degli Studi di Modena e Reggio Emilia

Modena, Italy

Bachelor's of Science in Mathematics, 110/110 with Honors

2005–2008

Thesis: *Generation of 3-Dimensional Rigid Spheres*—Advisor: Dr. Carlo Gagliardi

Peer-Reviewed Publications

- 2022 Goldhaber, D., Ronfeldt, M., Cowan, J., Gratz, T., **Bardelli, E.**, & Truwit, M. (2022). Room for improvement? mentor teachers and the evolution of teacher preservice clinical evaluations. *American Educational Research Journal*, Online First. <https://doi.org/10/gpfg8q>
- Herbst, P., Shultz, M., **Bardelli, E.**, Boileau, N., & Milewski, A. (2022). How can teaching simulations help us study at scale the tensions mathematics teachers have to manage when considering policy recommendations? *Educational Studies in Mathematics*, 110(1), 1–21. <https://doi.org/10/gnh8p9>
- 2021 **Bardelli, E.**, & Ronfeldt, M. (2021). Workforce outcomes of program completers in high needs areas. *American Journal of Education*, 128(1), 59–93. <https://doi.org/10.1086/716486>
- 2020 Diemer, M., Frisby, M., Pinedo, A., **Bardelli, E.**, Elliot, E., Harris, E., McAlister, S., & Voight, A. (2020). Development of the short critical consciousness scale (shoccs). *Applied Developmental Science*, 1–17. <https://doi.org/10.1080/10888691.2020.1834394>
- Ronfeldt, M., **Bardelli, E.**, Brockman, S., & Mullman, H. (2020). Will mentoring a student teacher harm my evaluation scores? effects of serving as a cooperating teacher on evaluation metrics. *American Educational Research Journal*, 57(3), 1392–1437. <https://doi.org/10.3102/0002831219872952>
- Ronfeldt, M., **Bardelli, E.**, Truwit, M., Mullman, H., Schaaf, K., & Baker, J. (2020). Improving preservice teachers' feelings of preparedness to teach through recruitment of instructionally effective and experienced cooperating teachers: A randomized experiment. *Educational Evaluation and Policy Analysis*, 42(14), 551–575. <https://doi.org/10.3102/0162373720954183>
- 2018 Milewski, A., Herbst, P., **Bardelli, E.**, & Hetrick, C. (2018). The role of simulations for supporting professional growth: Teachers' engagement in virtual professional experimentation. *Journal of Technology and Teacher Education*, 26(1), 103–126.

Working Papers

- 2022 Flanagan, C., Diemer, M., Gallay, E., **Bardelli, E.**, Wang, Y., Ebright, B., & Pinetta, B. (2022). *Linking stem learning to urban environmental action: Emphasizing the relevance of civic science*

for community contribution (Paper under review—revise and resubmit—at the American Educational Research Journal).

Ronfeldt, M., Truwit, M., **Bardelli, E.**, Schaaf, K., & Smith, B. (2022). *Cultivating coaching in clinical mentors: An experimental evaluation of the mentors matter professional development* (Working Paper No. 2022-01). Tennessee Education Research Alliance. https://peabody.vanderbilt.edu/TERA/files/TERA_Working_Paper_2022-01.pdf

- 2021 **Bardelli, E.**, Ronfeldt, M., & Papay, J. (2021, August). *Teacher preparation programs and graduates' growth in instructional effectiveness* (EdWorkingPapers #ai21-450). Annenberg Institute for School Reform at Brown University. <https://doi.org/10.26300/120j-qb52>
- 2020 Goldhaber, D., Ronfeldt, M., Cowan, J., Gratz, T., **Bardelli, E.**, Truwit, M., & Mullman, H. (2020). *Room for improvement? mentor teachers and the evolution of teacher preservice clinical evaluations* (Working Paper No. 239-0620). National Center for Analysis of Longitudinal Data in Educational Research. <https://caldercenter.org/sites/default/files/CALDER%20WP%20239-0620.pdf>
- Morris, W., Ronfeldt, M., **Bardelli, E.**, & Truwit, M. (2020). *Learning from the best: Promising practices in preparing tennessee's future teachers* (Tennessee Education Research Alliance Brief). https://peabody.vanderbilt.edu/TERA/files/Mentors_Matter_FINAL.pdf
- 2019 **Bardelli, E.**, & Herbst, P. (2019, March). *Practical rationality and instructional choices: Can a socio-cultural framework explain teacher decision making?*
- Ronfeldt, M., **Bardelli, E.**, Mullman, H., Truwit, M., Schaaf, K., & Baker, J. (2019, October). *Improving student teachers' feelings of preparedness to teach through recruitment of instructionally effective and experienced cooperating teachers: A randomized experiment* (EdWorkingPapers #ai19-148). Annenberg Institute for School Reform at Brown University. <https://doi.org/10.26300/vst6-j842>
- White, M., & **Bardelli, E.** (2019, September). *Criterion-referenced value-added scores*. <https://doi.org/10.35542/osf.io/28t65>
- 2018 Ronfeldt, M., Goldhaber, D., Cowan, J., **Bardelli, E.**, Johnson, J., & Tien, C. (2018, April). *Identifying promising clinical placements using administrative data: Preliminary results from isti placement initiative pilot* (CALDER Working Paper No. 2018-9). <https://caldercenter.org/sites/default/files/WP%20189.pdf>

Conference Papers

- 2022 **Bardelli, E.** (2022). Early career instructional supports, professional growth, and employment decisions. *Paper presented at the Causal Inference in Education Research Seminar (CIERS)*. University of Michigan, Ann Arbor, MI.
- Bardelli, E.**, & Ronfeldt, M. (2022). The promise and challenge of recruiting a diverse teaching workforce. *Invited presentation to the University of Michigan Ford School Domestic Policy Corps brown bag*. Ann Arbor, MI.
- Bardelli, E.**, & Truwit, M. (2022). Teacher evaluation systems: Measures of instructional effectiveness or mechanisms of structural bias? *Paper presented at the 2022 American educational research association (AERA) annual meeting*. San Diego, CA.
- Bardelli, E.**, Truwit, M., & Ronfeldt, M. (2022a). In-depth look at the pipeline into teaching: Insights from a state longitudinal data system. *Paper presented at the 2022 American educational research association (AERA) annual meeting*. San Diego, CA.
- Bardelli, E.**, Truwit, M., & Ronfeldt, M. (2022b). In-depth look at the pipeline into teaching: Insights from a state longitudinal data system. *Paper presented at the 2021 Association for Public Policy Analysis & Management (APPAM) fall research conference (conference delayed)*. Austin, TX.

- Fisher, L., **Bardelli, E.**, Ronfeldt, M., & Truwit, M. (2022). Revisiting the relationship between clinical mentors and student teacher effectiveness. *Paper presented at the 2022 American Education Finance and Policy (AEFP) annual conference. Denver, CO.*
- 2021 **Bardelli, E.** (2021). Relationship between early career supports and teacher growth. *Paper presented at the Causal Inference in Education Research Seminar (CIERS). University of Michigan, Ann Arbor, MI.*
- Bardelli, E.**, Ronfeldt, M., & Papay, J. (2021a). Exploring the relationship between teacher growth trajectories and teacher preparation program features. *Invited presentation to the Tennessee Department of Education—Human Capital division. Nashville, TN.*
- Bardelli, E.**, Ronfeldt, M., & Papay, J. (2021b). Exploring the relationship between teacher growth trajectories and teacher preparation program features. *Paper presented at the 2021 American educational research association (AERA) annual meeting, Online.*
- Bardelli, E.**, Ronfeldt, M., Truwit, M., Schaaf, K., & Baker, J. (2021). Replicating and extending the mentors matter recruitment initiative findings. *Paper presented at the 2021 American educational research association (AERA) annual meeting, Online.*
- Bardelli, E.**, & Truwit, M. (2021a). Teacher evaluation systems: Measures of instructional effectiveness or mechanisms of structural bias? *Paper presented at the 2021 QUINT PhD Summer Institute, University of Oslo, Norway.*
- Bardelli, E.**, & Truwit, M. (2021b). Teacher evaluation systems: Measures of instructional effectiveness or mechanisms of structural bias? *Paper presented at the Centennial Anti-Racist Colloquium, School of Education, University of Michigan, Ann Arbor, MI.*
- 2020 **Bardelli, E.**, Ion, M., Ko, I., & Herbst, P. (2020). Who benefits from mathematics courses for teachers? an analysis of mkt-g growth during geometry for teachers courses. *Paper accepted at the 2020 American educational research association (AERA) annual meeting. (Conference cancelled), San Francisco, CA.*
- Bardelli, E.**, Ronfeldt, M., Mullman, H., Truwit, M., & Schaaf, K. (2020). Effects of using administrative data to guide the recruitment of instructionally effective and experienced cooperating teachers: Results from a randomized control trial. *Paper accepted at the 2020 American educational research association (AERA) annual meeting. (Conference cancelled), San Francisco, CA.*
- Ronfeldt, M., **Bardelli, E.**, Truwit, M., Baker, J., & Schaaf, K. (2020). Effects of using administrative data to guide the recruitment of instructionally effective & experienced clinical mentors: Results from a randomized control trial. *Paper presented at the Association for Public Policy and Management (APPAM) annual meeting, Online.*
- 2019 **Bardelli, E.**, Papay, J., & Ronfeldt, M. (2019). Modeling educator preparation provider effects on graduates' improvement trajectories. *American Educational Research Association (AERA) Annual Meeting, Toronto, ON.*
- Bardelli, E.**, & Ronfeldt, M. (2019a). Labor market outcomes for teachers endorsed in high-needs areas. *Paper presented at the American Educational Research Association (AERA) Annual Meeting, Toronto, ON.*
- Bardelli, E.**, & Ronfeldt, M. (2019b). Labor market outcomes for teachers endorsed in high-needs areas. *Paper presented at the 2019 School of Education Graduate Student (GSCO) Conference, University of Michigan, Ann Arbor, MI.*
- Ronfeldt, M., **Bardelli, E.**, Mullman, H., & Truwit, M. (2019). Can administrative data help identify promising clinical placements? evidence from a randomized control trial in a teacher preparation program. *Paper presented at the 2019 American Education Finance and Policy (AEFP) Annual Conference, Kansas City, MO.*

- Ronfeldt, M., Mullman, H., Truwit, M., & **Bardelli, E.** (2019). Does cooperating teacher training impact coaching practice or candidate preparation? *Paper presented as the 2019 American Education Finance and Policy (AEFP) Annual Conference, Kansas City, MO.*
- 2018 **Bardelli, E.** (2018). Teacher decision making in instructional situations in algebra and geometry: Do teachers follow instructional norms? *Paper presented as the 2018 School of Education Graduate Student (GSCO) Conference, University of Michigan, Ann Arbor, MI.*
- Bardelli, E.,** & Herbst, P. (2018). Teacher decision making in instructional situations in algebra and geometry: Do teachers follow instructional norms? *Paper presented as the 2018 Psychology of Mathematics Education – North America (PME-NA) conference, Houston, TX.*
- Ion, M., **Bardelli, E.,** & Herbst, P. (2018). Learning about the norms of teaching practice: How can machine learning help analyze teachers' reactions to scenarios? *Poster presented as the 2018 MIDAS Annual Symposium, University of Michigan, Ann Arbor, MI.*
- Milewski, A., Amidon, J., **Bardelli, E.,** & Boileau, N. (2018). Using virtual spaces to promote teacher professional growth: Acting to believing. *Paper presented as the 2018 American Mathematics Teacher Educators (AMTE) Conference, Houston, TX.*
- 2017 **Bardelli, E.** (2017). Exploring teacher narratives following an online professional development activity. *Paper presented as the 2017 School of Education Graduate Student (GSCO) Conference, University of Michigan, Ann Arbor, MI.*

Conference Papers - Non-presenting Author

- 2022 Diemer, M., Frisby, M., Pinedo, A., **Bardelli, E.,** Elliot, E., Harris, E., McAllister, S., & Voight, A. (2022). Enacting critical quantitative methodology: Leveraging irt to advance critical consciousness measurement. *Paper presented at the QMC22 Conference, Columbus, OH.*
- Fisher, L., **Bardelli, E.,** Ronfeldt, M., & Truwit, M. (2022). Revisiting the relationship between clinical mentors and student teacher effectiveness. *Paper presented at the 2022 Data for Public Good symposium, University of Michigan, Ann Arbor, MI.*
- Gallagher, M., **Bardelli, E.,** Folger, T., Neely, A., Bostic, J., Walkowiak, T., Wilhelm, A., & Zelkowski, J. (2022). Measures of mathematics teachers' behavior and affect: An examination of the assessment landscape. *Paper presented at the 2022 American educational research association (AERA) annual meeting, San Diego, CA.*
- Goldhaber, D., Ronfeldt, M., Cowan, J., Gratz, T., **Bardelli, E.,** & Truwit, M. (2022). Clinical placements and teacher candidates transitions into the labor market: Evidence from a random assignment experiment. *Paper presented at the 2022 association for public policy analysis & management (APPAM) annual meeting, Austin, CO.*
- Paulson, A., **Bardelli, E.,** Godfrey, J., Ion, M., & Frisby, M. (2022). Who follows placement recommendations? differential effects of nonbinding placement recommendations on students' course-taking decisions. *Paper presented at the 2022 American educational research association (AERA) annual meeting, San Diego, CA.*
- Truwit, M., **Bardelli, E.,** & Ronfeldt, M. (2022a). The promise of the residency model: A statewide examination of effects on teacher employment, performance, and retention. *Paper presented at the 2022 American educational research association (AERA) annual meeting, San Diego, CA.*
- Truwit, M., **Bardelli, E.,** & Ronfeldt, M. (2022b). The promise of the residency model: A statewide examination of effects on teacher employment, performance, and retention. *Paper presented at the 2022 association for public policy analysis & management (APPAM) annual meeting, Austin, TX.*
- 2021 Goldhaber, D., Ronfeldt, M., Cowan, J., **Bardelli, E.,** Johnson, L., Mullman, H., & Tien, C. (2021). Feedback for teaching candidates from mentor teachers and university supervisors. *Paper presented at the 2021 American educational research association (AERA) annual meeting, Online.*

Ronfeldt, M., Truwit, M., **Bardelli, E.**, & Gathia, F. (2021). Do better teachers make better instructional coaches? *Paper presented at the 2021 American educational research association (AERA) annual meeting, Online.*

Truwit, M., Ronfeldt, M., **Bardelli, E.**, & Schaaf, K. (2021). Examining the impact of professional development on cooperating teacher coaching and preservice candidates' readiness to teach. *Paper presented at the 2021 American educational research association (AERA) annual meeting, Online.*

2020 Ronfeldt, M., Truwit, M., & **Bardelli, E.** (2020). Does cooperating teacher training impact the frequency or quality of coaching practice? *Paper presented at the Association for Public Policy and Management (APPAM) annual meeting, Online.*

2019 Cowan, J., Goldhaber, D., Ronfeldt, M., **Bardelli, E.**, Johnson, J., & Tien, C. (2019). Do i know myself? how self-perceived effectiveness evolves during the student teaching internship. *Paper presented at the 2019 American Education Finance and Policy (AEFP) Annual Conference, Kansas City, MO.*

Goldhaber, D., Cowan, J., Ronfeldt, M., **Bardelli, E.**, Johnson, J., & Tien, C. (2019). Room for improvement? descriptive evidence on the content of student teacher evaluations. *Paper presented at the 2019 American Education Finance and Policy (AEFP) Annual Conference, Kansas City, MO.*

Mesa, V., Duranczyk, I., **Bardelli, E.**, & Group, A. (2019). February). an exploratory factor analysis of eqipm, a video coding protocol to assess the quality of community college algebra instruction. *Paper presented at the Research in Undergraduate Mathematics Education (RUME) Conference, Oklahoma City, OK.*

Milewski, A., **Bardelli, E.**, & Herbst, P. (2019). Framing a task as both construction and proof: How do teachers manage? *Paper presented at the National Council of Teachers of Mathematics Research (NCTM-R) Conference, San Diego, CA.*

Ronfeldt, M., **Bardelli, E.**, Brockman, S., & Mullman, H. (2019). Will mentoring a student teacher harm my evaluation scores? effects of serving as a cooperating teacher on evaluation metrics. *Paper presented at the 2019 American Education Finance and Policy (AEFP) Annual Conference, Kansas City, MI.*

Ronfeldt, M., Mullman, H., Truwit, M., & **Bardelli, E.** (2019). Does mentor training impact coaching practice or candidate preparation? *Paper presented at the American Educational Research Association (AERA) Annual Meeting, Toronto, ON.*

Shultz, M., **Bardelli, E.**, Milewski, A., Boileau, N., & Herbst, P. (2019). What can we learn about the differences between experts and novices from a teaching simulation? *Paper presented at the American Educational Research Association (AERA) Annual Meeting, Toronto, ON.*

Honors and Awards

Rackham's One-Term Dissertation Finishing Grant <i>University of Michigan</i>	2022
Institute of Education Sciences Pre-Doctoral Fellowship <i>University of Michigan, Pre-doctoral training in causal inference in education</i>	2017–2022
School of Education Scholar Award <i>University of Michigan</i>	2016–2022
National Science Foundation Graduate Research Fellowship <i>Honorable mention</i>	2017
Horace H. Rackham School of Graduate Studies Regents Fellowship <i>University of Michigan</i>	2016–2017
Department of Natural and Physical Sciences <i>Università Degli Studi di Modena e Reggio Emilia, Merit Scholarship</i>	2005–2008

Research Experience

Multiple research projects 2016–2021
Graduate Student Research Assistant
School of Education, University of Michigan

Teaching Experience

Graduate-level Courses.....

Research and Educational Practice (EDUC 695) Fall 2021
Graduate Student Instructor for Dr. Matthew Ronfeldt
University of Michigan

Research and Educational Practice (EDUC 695) Fall 2020
Graduate Student Instructor for Dr. Matthew Ronfeldt
University of Michigan

Structural Equation Modeling (EDUC 803) Winter 2019
Graduate Student Instructor for Dr. Matthew Diemer
University of Michigan

Psychometrics (EDUC 707) Fall 2018
Graduate Student Instructor for Dr. Matthew Diemer
University of Michigan

Professional Development of In-Service Teachers.....

Facilitator 2016
AVID Summer Institute
Sacramento, California

Instructional Coach 2015–2016
Curriculum and Instruction Department
Lodi Unified School District, Lodi, California

K-12 Teaching Experience.....

Mathematics Instructor 2015
Bear Creek High School, Summer Enrichment Program
Stockton, California

Mathematics Teacher 2012–2015
Joe Serna Junior Charter School, Grades 6-8 Mathematics and AVID
Lodi, California

Mathematics Teacher 2010–2012
Woodrow Wilson Senior High School, Grades 9-12 Mathematics
Los Angeles, California

Urban Teacher Resident 2010–2011
Woodrow Wilson High School, Los Angeles Urban Teacher Residency
Los Angeles, California

Professional Service

Peer Reviewer 2017–Present
Journals

Educational Studies in Mathematics, Journal for Research in Mathematics Education, Educational Evaluation and Policy Analysis, Journal of Cognition and Development

Peer Reviewer 2017–Present
Conferences

American Educational Research Association, Psychology of Mathematics Education – North America, Research in Undergraduate Mathematics Education, National Council of Teachers of Mathematics, Association of Mathematics Teacher Educators

Dean Advisory Committee Member 2018–2020

Graduate Student Representative for Educational Studies

School of Education, University of Michigan

Graduate Student Co-coordinator 2020–2021

Causal Inference in Education Research Seminar

School of Education, University of Michigan

Graduate Student Co-coordinator 2019–2020

Education in Mathematics, Science, and Technology research workshop

School of Education, University of Michigan

Placement Policy and Assessment Consultant 2016–2018

Department of Curriculum and Instruction

Lodi Unified School District

Advisory Board Member 2013–2016

Joe Serna Junior Charter School

Lodi Unified School District, Lodi, California

Tutor 2010–2012

United Friends of the Children

Los Angeles, California

Advanced Methods Training

Statistical and Mathematical Software: Stata, R, C++, Python, Ruby

Advanced Research Methods: Causal Inference Methods, Psychometrics, Structural Equation Modeling, Systemic Functional Linguistics