

# Emanuele Bardelli

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## Education

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### 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

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- 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

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- 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](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/>
- 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

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- 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

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- 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

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

## Research Experience

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

## Teaching Experience

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### 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

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**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**

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

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