

# Emanuele Bardelli

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## EDUCATION

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- PhD in Educational Studies Expected: 2022  
University of Michigan, Ann Arbor, Michigan  
Concentration in Mathematics Education  
Dissertation Committee: Dr. Matthew Ronfeldt (chair), Dr. Susan Dynarski (cognate), Dr. Deborah Ball, Dr. Brian Jacob.
- Masters of Arts in Education Awarded: 2011  
California State University Los Angeles, Los Angeles, California  
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.Deer Williams
- Bachelor of Science in Mathematics Awarded: 2008  
Università Degli Studi di Modena e Reggio Emilia, Modena, Italy  
Thesis: *Generation of 3-Dimensional Rigid Spheres*  
Advisor: Dr. Carlo Gagliardi  
Graduated with Highest Honors

## PUBLICATIONS and PRESENTATIONS

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### Peer-Reviewed Publications:

- Bardelli, E., & Ronfeldt, M. (2021). Workforce outcomes of program completers in high needs areas. *American Journal of Education*. Paper accepted for publication.
- Diemer, M. A., Frisby, M. B., Pinedo, A., Bardelli, E., Elliot, E., Harris, E., McAlister, S., & Voight, A. M. (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., Truwit, M., Mullman, H., Schaaf, K., & Baker, J. C. (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>
- Ronfeldt, M., Bardelli, E., Brockman, S. L., & Mullman, H. (2020). Will mentoring a student teacher harm my evaluation scores? Effects of serving as a cooperating teacher on evaluation metrics. *Am. Educ. Res. J.*, 57(3), 1392–1437. <https://doi.org/10.3102/0002831219872952>
- 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:**

- Bardelli, E., Ronfeldt, M., & Papay, J. P.** (2021, June). Teacher preparation programs and graduates' growth in instructional effectiveness (Working Paper No. 2021-01). Tennessee Education Research Alliance, Vanderbilt University. Available at [https://peabody.vanderbilt.edu/TERA/files/TERA\\_Working\\_Paper\\_2021-01.pdf](https://peabody.vanderbilt.edu/TERA/files/TERA_Working_Paper_2021-01.pdf)
- Ronfeldt, M., **Bardelli, E.**, Mullman, H., Truwit, M., Schaaf, K., & Baker, J. C. (2019, October). Improving student teachers' feelings of preparedness to teach through recruitment of instructionally effective and experienced cooperating teachers: A randomized experiment. Available at <http://www.edworkingpapers.com/ai19-148>
- White, M., & **Bardelli, E.** (2019, September). Criterion-referenced value-added scores. Available at <https://doi.org/10.35542/osf.io/28t65>
- Bardelli, E.** & Herbst, P. (2019, March). Practical rationality and instructional choices: Can a socio-cultural framework explain teacher decision making?
- Ronfeldt, M., Goldhaber, D., Cowan, J., **Bardelli, E.**, Johnson, J., & Tien, C. D. (2018, April). Identifying promising clinical placements using administrative data: Preliminary results from ISTI placement initiative pilot. *CALDER Working Paper*. Available at <https://caldercenter.org/sites/default/files/WP%20189.pdf>

### **Policy Briefs:**

- 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). Available at [https://peabody.vanderbilt.edu/TERA/files/Mentors\\_Matter\\_FINAL.pdf](https://peabody.vanderbilt.edu/TERA/files/Mentors_Matter_FINAL.pdf)

### **Invited and Conference Presentations:**

- Bardelli, E., Ronfeldt, M., & Papay, J.P.** (2021, June). *Exploring the relationship between teacher growth trajectories and teacher preparation program features*. Invited presentation to the Tennessee Department of Education—Human Capital division.
- Bardelli, E., & Truwit, M.** (2021, May). *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.
- Bardelli, E., Ronfeldt, M., & Papay, J. P.** (2021, April). *Exploring the relationship between teacher growth trajectories and teacher preparation program features*. Paper presented at the 2021 American educational research association (AERA) annual meeting.
- Bardelli, E., Ronfeldt, M., Truwit, M., Schaaf, K., & Baker, J. C.** (2021, April). *Replicating and extending the mentors matter recruitment initiative findings*. Paper presented at the 2021 American educational research association (AERA) annual meeting.
- Ronfeldt, M., **Bardelli, E.**, Truwit, M., Baker, J. C., & Schaaf, K. (2020, November). *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.
- Bardelli, E., Ion, M., Ko, I., & Herbst, P.** (2020, April). *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, San Francisco, CA (Conference cancelled).
- Bardelli, E.,** Ronfeldt, M., Mullman, H., Truwit, M., & Schaaf, K. (2020, April). *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, San Francisco, CA (Conference cancelled).
- Bardelli, E.,** & Ronfeldt, M. (2019, April). *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.,** Papay, J., & Ronfeldt, M. (2019, April). *Modeling educator preparation provider effects on graduates' improvement trajectories*. Paper presented at the American Educational Research Association (AERA) Annual Meeting, Toronto, ON.
- Ronfeldt, M., Mullman, H., Truwit, M., & **Bardelli, E.,** (2019, March). *Does cooperating teacher training impact coaching practice or candidate preparation?* Paper presented at the 2019 American Education Finance and Policy (AEFP) Annual Conference, Kansas City, MO.
- Ronfeldt, M., **Bardelli, E.,** Mullman, H., & Truwit, M. (2019, March). *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.
- Bardelli, E.,** & Ronfeldt, M. (2019, March). *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.
- Bardelli, E.** & Herbst, P. (2018, November). *Teacher decision making in instructional situations in algebra and geometry: Do teachers follow instructional norms?* Poster presented at the 2018 Psychology of Mathematics Education – North America (PME-NA) conference, Houston, TX.
- Ion, M., **Bardelli, E.,** & Herbst, P. (2018, October). *Learning About the Norms of Teaching Practice: How Can Machine Learning Help Analyze Teachers' Reactions to Scenarios?* Poster presented at the 2018 MIDAS Annual Symposium, Ann Arbor, MI.
- Bardelli, E.** (2018, March). *Teacher decision making in instructional situations in algebra and geometry: Do teachers follow instructional norms?* Paper presented at the 2018 School of Education Graduate Student (GSCO) Conference, University of Michigan, Ann Arbor, MI.
- Milewski, A., Amidon, J., **Bardelli, E.,** & Boileau, N. (2018, February). *Using virtual spaces to promote teacher professional growth: Acting to believing*. Paper presented at the 2018 American Mathematics Teacher Educators (AMTE) Conference, Houston, TX.
- Bardelli, E.** (2017, March). *Exploring teacher narratives following an online professional development activity*. Paper presented at the 2017 School of Education Graduate Student (GSCO) Conference, University of Michigan, Ann Arbor, MI.

#### **Conference Papers - Non-presenting Author:**

- Goldhaber, D., Ronfeldt, M., Cowan, J., **Bardelli, E.,** Johnson, L. J., Mullman, H., & Tien, C. (2021, April). *Feedback for teaching candidates from mentor teachers and university*

- supervisors*. Paper presented at the 2021 American educational research association (AERA) annual meeting.
- Ronfeldt, M., Truwit, M., **Bardelli, E.**, & Gathia, F. P. (2021, April). *Do better teachers make better instructional coaches?* Paper presented at the 2021 American educational research association (AERA) annual meeting.
- Truwit, M., Ronfeldt, M., **Bardelli, E.**, & Schaaf, K. (2021, April). *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.
- Ronfeldt, M., Truwit, M., & **Bardelli, E.** (2020, November). *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.
- Ronfeldt, M., Mullman, H., Truwit, M., & **Bardelli, E.** (2019, April). *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, April). *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.
- Milewski, A., **Bardelli, E.**, & Herbst, P. (2019, April). *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.
- Mesa, V., Duranczyk, I., **Bardelli, E.**, & AI@CC Research Group (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.
- Cowan, J., Goldhaber, D., Ronfeldt, M., **Bardelli, E.**, Johnson, J., & Tien, C. (2019, March). *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, March). *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.
- Ronfeldt, M., **Bardelli, E.**, Brockman, S., & Mullman, H. (2019, March) *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.

## HONORS AND AWARDS

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| • Institute of Education Sciences Pre-Doctoral Fellowship<br>Pre-doctoral training in causal inference in education | 2017-Present |
| • School of Education Scholar Award, University of Michigan   | 2016-present |
| • National Science Foundation Graduate Research Fellowship<br>Honorable mention                                     | 2017         |
| • Horace H. Rackham School of Graduate Studies Regents Fellowship   | 2016-2017    |

- Department of Natural and Physical Sciences, Merit Scholarship 2005-2008  
Università Degli Studi di Modena e Reggio Emilia

## **PROFESSIONAL SERVICE**

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- Dean Advisory Committee 2018-Present  
Graduate Student Representative for Educational Studies  
School of Education, University of Michigan
- 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  
Journals: Educational Studies in Mathematics, Journal for Research in Mathematics Education, Educational Evaluation and Policy Analysis, Journal of Cognition and Development
- Causal Inference in Education Research Seminar 2020-Present  
Graduate Student Co-coordinator  
School of Education, University of Michigan
- Education in Mathematics, Science, and Technology research workshop 2019-2020  
Graduate Student Co-coordinator  
School of Education, University of Michigan
- Placement Policy and Assessment Consultant 2016-2018  
Department of Curriculum and Instruction  
Lodi Unified School District, Lodi, California
- Advisory Board Member 2013-2016  
Joe Serna Junior Charter School  
Lodi Unified School District, Lodi, California
- Tutor, United Friends of the Children, Los Angeles, California 2010-2012

## **RESEARCH EXPERIENCE**

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- Research Assistant 2016 – Present  
University of Michigan, Ann Arbor, Michigan

## **TEACHING EXPERIENCE**

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### **Graduate-level Courses**

- Psychometrics Fall 2018  
Graduate Student Instructor for Dr. Matthew Diemer, University of Michigan
- Structural Equation Modeling Winter 2019
  - Graduate Student Instructor for Dr. Matthew Diemer, University of Michigan

### **Professional Development of In-Service Teachers:**

- AVID Summer Institute, Sacramento, California 2016
- Curriculum and Instruction 2015-2016  
Lodi Unified School District, Lodi, California

### **K-12 Teaching Experience:**

- Bear Creek High School, Stockton, California 2015

- Mathematics Instructor: Summer Enrichment Program

  - Joe Serna Junior Charter School, Lodi, California

Mathematics and AVID Instructor: Grades 6-8 Mathematics and AVID

  - Woodrow Wilson Senior High School, Los Angeles, California

Mathematics Instructor: Grades 9-12 Mathematics

  - Urban Teacher Resident at Woodrow Wilson High School

Los Angeles Urban Teacher Residency

California State University, Los Angeles, Los Angeles, California

2012-2015

2010-2012

2010-2011

### **ADVANCED METHODS TRAINING**

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- Statistical and Mathematical Software: Stata, R, C++, Python, Ruby
- Advanced Research Methods: Causal Methods, Psychometrics, Structural Equation Modeling, Systemic Functional Linguistics