

# Emanuele Bardelli

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## EDUCATION

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- PhD in Educational Studies Expected: 2021  
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.Dee 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:

- 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:

- 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)

### **Conference Presentations - Presenting Author:**

**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:**

- 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 2012-2015  
Mathematics and AVID Instructor: Grades 6-8 Mathematics and AVID
- Woodrow Wilson Senior High School, Los Angeles, California 2010-2012  
Mathematics Instructor: Grades 9-12 Mathematics
- Urban Teacher Resident at Woodrow Wilson High School 2010-2011  
Los Angeles Urban Teacher Residency  
California State University, Los Angeles, Los Angeles, California

### **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