

PRIYANKA AGARWAL
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EDUCATION:

2013- PhD in Education, University of California, Irvine, CA
2008-2010 M.S. in Mathematics, Purdue University, IN
2000-2003 Master in Computer Applications, Army Institute of Management Kolkata, India
1997-2000 B.A. in Mathematics, University of Delhi, India

RESEARCH AREAS AND METHODOLOGIES:

- Mathematics education, Mathematical practices and student learning, Tracking in public school mathematics, Mixed methods research
- Qualitative: Fieldwork, Interviews, Focus groups, Video data analysis
- Quantitative: Stata, SAS, Matlab

JOURNAL ARTICLES:

Domina, T., Lewis, R., **Agarwal, P.**, & Hanselman, P. (2015). Professional sense-makers: Instructional specialists in contemporary schooling. *Educational Researcher*.

Sengupta-Irving, T., & Agarwal, P. (in press). Conceptualizing perseverance in problem solving as collective enterprise. *Mathematical Thinking and Learning*.

SUBMITTED ARTICLES AND PAPERS IN PROGRESS:

Agarwal, P., & Domina, T. (under review). Outward and Inward Attributes of School Change: A Mixed-Method Study of Three School Districts.

Domina, T., McEachin, A., Hanselman, P., **Agarwal, P.**, Hwang, N., & Lewis, R. (under review). *Beyond tracking and detracking: The dimensions of organizational differentiation in schools*.

OTHER PUBLICATIONS:

K. K. Ng, **P. Agarwal**, N. Mullen, D. Du, and I. Pollak, "Comparison Of Several Covariance Matrix Estimators For Portfolio Optimization," Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing, May 2011, Prague, Czech Republic.

PEER-REVIEWED CONFERENCE PRESENTATIONS:

Domina, T., McEachin, A., **Agarwal, P.**, Hanselman, P., Hwang, N., & Lewis, R. (2016, April). *Beyond tracking and detracking: The dimensions of organizational differentiation in schools*. Paper presented at the American Educational Research Association (AERA) annual meeting, Chicago, IL

Sengupta-Irving, T., & **Agarwal, P.** (2016, April). *What Does Perseverance in Problem Solving Mean for Collaborative Learning?* Paper presented at the National Council for Teachers of Mathematics (NCTM) research conference, San Francisco, CA

Sengupta-Irving, T., & **Agarwal, P.** (2015, April). *Productive struggle and the development of relational equity in a mathematics learning community*. Paper presented at the American Educational Research Association (AERA) annual meeting, Chicago, IL

FUNDING:

2015- Graduate Student Researcher, University of California, Irvine.
Complex Equations: Algebra Instruction in the Common Core Era.
PI: Morgan Polikoff, Co-PI: Thurston Domina

2013 Block funding, School of Education, University of California, Irvine.

TEACHING EXPERIENCE:

- 2014 Graduate Teaching Assistant, University of California, Irvine.
- EDUC 55, “Knowing and Learning in Math and Science” Professor: Rossella Santagata
 - EDUC 207, “Cognition and Pedagogy in Quantitative Literacy” Professor: Valerie Henry
 - EDUC 50, “Origins, Purposes, and Central Issues in K-12 Education” Professor: Cathery Yeh
- 2010-2011 Mathematics Instructor, Tarrant County College District, Fort Worth, TX.
- Instructor for College Algebra and Developmental Math (Pre-Algebra, Beginning Algebra and Intermediate Algebra).
 - Mathematics instructor under the Texas Higher Education Coordinating Board (THECB)-funded PAVE program for Texas Success Initiative (TSI)-obligated students.
 - Remodeled the instruction method & curriculum of Algebra course for the PAVE program.
- 2008-2010 Graduate Teaching Assistant, Purdue University, West Lafayette, IN.
- Instructor, Algebra & Trigonometry, Spring 2010
 - Recitation instructor, Multi-variate Calculus, Analytic Geometry & Calculus I, Fall 2008-09
- 2001-2003 Graduate Teaching Assistant, Army Institute of Management Kolkata, India.
- Recitation instructor, Statistics and Discrete Mathematics for MBA students.

PROFESSIONAL EXPERIENCE

- 2003-2007 GENPACT Analytics, Market Forecasting for General Electric (GE), Energy
Market forecast modeling, Customer risk and behavior analysis, Probabilistic and pattern
recognition algorithmic analysis
- Mar 2006 – Apr 2007 Onsite Project Manager, Atlanta, GA, USA
Dec 2003 – Mar 2006 e - Market Model Manager, Bangalore, India

UNIVERSITY SERVICE:

- 2013-2015 **International Student Representative**, ADSE, School of Education, University of California, Irvine.
- 2009-2010 **President**, Financial Mathematics Club, Purdue University, West Lafayette, IN.

PROFESSIONAL AFFILIATIONS:

- American Educational Research Association (AERA)
National Council for Teachers of Mathematics (NCTM)