

Priya Vinata Prasad

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EDUCATION

Doctoral Candidate, Dept. of Mathematics, University of Arizona, Tucson, AZ, Aug. 2008-present

Field: Mathematics Education, Projected Graduation Date: May. 2014

Advisor: Dr. Rebecca McGraw

Bachelor of Arts, Scripps College, Claremont CA, Graduated May 2006

Majors: Mathematics and Religious Studies

ACADEMIC WORK

Math Education Graduate Courses: Research on Student Learning of Mathematics; Research on Teaching Mathematics; Curriculum Theory & Policy; Equity, Diversity & Social Justice in Math/Science Education; Discourse & Identity; Selected Applications of Statistical Methods; Qualitative Research Methods; Theory of Measurement: Item-Response Theory

Mathematics Graduate Courses: Probability Theory; Theory of Statistics; Analysis (2 semesters); Algebra (2 semesters); Topology; Differential Geometry

Independent Research Project in Information Theory (under supervision of Dr. Marek Rychlik)

Undergraduate Thesis (Independent Research Project) in Algebraic Number Theory: Investigating the behavior of primes over quadratic and bi-quadratic field extensions. Independently formulated theorem involving quadratic field extensions. Presented this research in poster form at the Nebraska Conference for Undergraduate Women in Mathematics, February 2006.

K-12 EXPERIENCE

Math Teacher, 2006-2008, The Webb Schools, Claremont, CA

Taught Geometry, Algebra 2/Trigonometry and Precalculus to 9th-12th graders. Full time position which included supervising extracurricular activities such as Yearbook, running and providing mentorship for Math Lab – a peer-tutorial program, dorm supervision, and participating in interdisciplinary educational programs.

Math Teacher, Summer 2004, Breakthrough San Jose, San Jose, CA

Taught math to rising eighth graders, mostly pre-Algebra and Algebra. Planned and crafted all lessons. Organized six week course into weekly themes (i.e. fractions, graphing, word problems, etc). Taught a full day of classes (including an elective). Created, administered and graded quizzes/exams.

Practicum, Tanque Verde High School, Spring 2010, Tucson, AZ

Observed and aided 3 periods of Geometry (taught by Maggie Janecki).

Practicum, Davidson Elementary School, Fall 2011, Tucson, AZ

Observed and aided 4th grade math (taught by Alexander Rodriguez).

UNIVERSITY WORK EXPERIENCE

Graduate Assistant, Southern Arizona Inducting New Teachers (SAINT) Grant, Center for Recruitment and Retention, Aug. 2012-present, University of Arizona (UA), Tucson, AZ

Aided Dr. Cody Patterson and Virginia Bohme in the administration of the Center for Recruitment and Retention. Created and facilitated 3 month-long, weekly professional

development workshops. Developed and aided in the development of new-teacher induction workshops. Supported first-year teachers by expanding the New Teacher Induction Program (under the auspices of the SAINT grant).

Developed and facilitated an online PLC for SAINT teachers (Fall 2013).

Teaching Coach, Center for Recruitment and Retention, Aug. 2012-May 2013, UA

Mentored two beginning middle-school teachers. Observed classes and gave feedback and suggestions. Provided curriculum materials and resources. Participated in and helped lead New Teacher Induction Program workshops.

University Mentor, Secondary Mathematics Education Program, Jan. 2013-May 2013, UA

Supervised a student teacher in her semester of student teaching at Sahuarita Middle School (mentor teacher: Sylvia Telles). Observed classes and gave feedback and suggestions. Evaluated teaching portfolio. Participated in Student Teaching Seminars.

Intel Math Instructor, Jul. 2012-Dec. 2012 (SAZMI Grant), May 2013

Planned and implemented 80 hours of professional development using the Intel Math Curriculum in underserved areas in Arizona (Rio Rico, San Carlos). Worked alongside a mathematician or mathematics educator to support 30-40 elementary teachers in their exploration of mathematical concepts. As part of the SAZMI grant, wrote and facilitated a two-hour professional development module on fraction multiplication. Received training in the Intel Math Curriculum (Mar. 2012).

Graduate Research Assistant, May 2009-May 2012, UA

Aided Dr. Rebecca McGraw in work on an NSF-funded project (Knowledge for Teaching Secondary School). Conducted analyses of data, collected data, extensively interviewed participants. Presented research at conferences. Made observational trips (both with Dr. McGraw and independently) to research sites.

Graduate Teaching Assistant, Jan. 2009-May 2012, UA

Taught one semester of College Algebra (Math 112) and two semesters of Plane Trigonometry (Math 111). Taught one semester of Math in Modern Society (Math 105), implemented alternate teaching methods and facilitated class discussions about mathematical concepts. Taught two semesters of Understanding Elementary Mathematics (Math 302A), worked with preservice teachers, implemented a curriculum grounded in research on student learning.

Super-TA, Formal Mathematical Reasoning and Writing, Jan. 2011-May 2011, UA

Assisted in the teaching of class for mathematics majors and preservice teachers: Math 323, Formal Mathematical Reasoning and Writing. Facilitated class discussions and held office hours. Instructor of record: Dr. Theodore Laetsch.

Super-TA, Topics in Geometry, Aug. 2010-Dec. 2010, UA

Co-taught class for preservice teachers: Math 330, Topics in Geometry. Facilitated class discussions, graded homework and set course objectives. Instructor of record: Dr. Rebecca McGraw.

TALKS

- “Understanding the Factors that Mediate the Effects of Professional Development” - Association of Mathematics Teachers and Educators, Feb. 2014, Irvine, CA.
- “Understanding Changes in Teaching Practice After Content-Based Professional Development” - Joint Math Meetings, Jan. 2013, San Diego, CA.
- “Integrating Content and Pedagogy in Secondary Teacher Preparation” - with Rebecca McGraw and Chantel Blackburn, Psychology of Mathematics Education – North America, Oct. 2011, Reno, NV.

- “Researching the Integration of Mathematical and Educational Perspectives in Mathematics Teacher Preparation” - Joint Math Meetings, Jan. 2010, San Francisco, CA.
- “Motivating Algebra: Flipping the Script to Problem-Based Instruction” - Math Educator Appreciation Day, Jan. 2013, Tucson, AZ.
- “The Un-common Core, or Changing the World with Mathematics” - Math Educator Appreciation Day, Jan. 2012, Tucson, AZ.
- “Equity in the Math Classroom” - Mathematics Instructional Colloquium, Oct. 2011, UA.
- “From Teaching to Educating” - MIC, Mar. 2011, UA.
- “Overcoming Math Anxiety” - with Victor Piercey, MIC, Nov. 2010, UA.
- “What is Math Ed Research?” - Undergraduate Teaching Assistants Seminar, Sept. 2013, UA
- “Encouraging students to think mathematically” - Mathematics Graduate Colloquium, Apr. 2013, UA.
- “Teaching for Understanding” - MGC, Oct. 2012, UA.
- “Math Education 101: What is it, and why you should care” - MGC, Mar. 2012, UA.
- “Quadratic Reciprocity” - with Veronica Marino and Anne Donahue, MGC, Sept. 2008, UA.

PUBLICATIONS

- Prasad, P. V., McGraw, R., & Blackburn, C. (2010). Integrating content and pedagogy in secondary teacher preparation, in Brosnan, P., Erchick, D. B., & Flevaris, L. (Eds.), *Proceedings of the 32th Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education*. Columbus, OH.

WORKSHOPS

- “Good Problems” - Center for Recruitment and Retention, Sept./Oct. 2013, UA.
- “Developing the Multiplication of Fractions” - SAZMI Intel Math Grant, Jan. 2013, UA.
- “GeoGebra for Geometry” - Center for Recruitment and Retention, Feb./Mar. 2013, UA.
- “Lions, Tigers and Fractions, Oh My!” - Center for Recruitment and Retention, Sept. 2012, UA.
- “Ancient Number Systems” - Middle-School Teachers' Circle, Center for Recruitment and Retention, Mar. 2012, UA.
- “Math Anxiety” - with Sheila Tobias and Victor Piercey, Sept. 2010, Tucson, AZ.

SERVICE

- Mentor, Integration Workshop for 1st year graduate students, Aug. 2010 & Aug. 2013, UA
- Co-organizer, Graduate Colloquium, Spring 2013, UA
- TA Representative, Undergraduate Committee, Spring 2013, UA
- Co-organizer, Sonia Kovalevsky Day, Mar. 2011 & Mar. 2012, UA
- Organizer, Noetherian Ring Women in Mathematics Group, Aug. 2010-May 2012, UA
- Workshop presenter, Sonia Kovalevsky Day, Mar. 2013, UA
- Founder and Lead Tutor, Spring 2005, Math Spot, Scripps College, Claremont, CA

HONORS

- Outstanding Graduate Teaching Assistant Award, Department of Mathematics, Fall 2011
- College of Science Graduate Student Award Nominee (Mathematics), Teaching Award, Spring 2011