

VITA

Elizabeth B. Uptegrove
13 Gunther Street
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Current Work Experience

2009 – present Associate Editor, *Journal of Mathematical Behavior*
2009 – present Associate Professor of Mathematics and Math Department Chair (chair since 2008), Felician College, Lodi, NJ
2005 – 2009 Assistant Professor of Mathematics, Felician College, Lodi, NJ

Recent Accomplishments

- Designed and taught a mathematics content course for underprepared freshmen as part of the college's "Jumpstart" program for three summers; served as program director for two summers.
- Helped create the Math Lab, a drop-in center for math students, for tutoring, studying, and doing homework.
- Designed and taught a mathematics content course for pre-service middle school math teachers.
- Conducted the math department's first self-assessment.
- In conjunction with the computer information systems department, started a math/computer science club.

Past Work Experience

2005 Adjunct Faculty, Rider University, Lawrenceville, NJ
2004 – 2005 Adjunct Faculty, The College of New Jersey, Ewing, NJ
2000 – 2002 Teaching Assistant, Rutgers University Graduate School of Education, New Brunswick, NJ
1997 – 2004 Adjunct Faculty, College of St. Elizabeth, Morristown, NJ
1997 – 2008 Consultant, Xybion Corporation, Cedar Knolls, NJ
1996 – 1999 Adjunct Faculty, Fairleigh Dickinson University, Madison, NJ
Also prepared curriculum and taught summer institutes for entering freshmen in the EOF program and for urban ninth-graders in a pre-college program.
1995 – 1996 Adjunct Faculty, Warren County Community College, Washington, NJ
1994 – 1998 Computer Teacher, Yeshiva Shaarei Tzion, Piscataway, NJ
Also coached the sixth-grade math team.
1977 – 1994 Computer Analyst, Xybion Corporation, Cedar Knolls, NJ
1969 – 1974 Member of Technical Staff, Bell Laboratories, Whippany, NJ

Courses Currently Taught

- Basic Skills in Mathematics – Algebra and PreAlgebra
- Calculus II
- College Algebra
- Mathematical Explorations
- Mathematics Reasoning and Assessment
- Statistics I (on-campus and on-line)

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- Mathematics Education Practicum (graduate level)

Other Courses Taught

- Calculus I
- Mathematics for Financial Decision Making
- Quantitative Reasoning
- Seminar in Teaching High School Mathematics
- Teaching Mathematics in the Elementary School

Publications

Maher, C., Powell, A., & Uptegrove E., Eds. (in press). Combinatorics and Reasoning: Representing, Justifying, and Building Isomorphisms. Springer: New York, NY.
Uptegrove, E. (2007). Making sense of standard notation. *School Connections*, 18(1), 32-39.

Refereed Conference Proceedings

- Reynolds, S. & Uptegrove, E. (2007). Preservice teachers' modeling of fractions: Connecting symbols and meaning. *Proceedings of the 29th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (CD-ROM)*, Reno, NV.
- Reynolds, S. & Uptegrove, E. (2006). Using manipulatives to teach students in college developmental math classes about fractions. In J. Novotná, H. Moraová, M. Krátká, & N. Stehliková (Eds.), *Proceedings of the 30th Conference of the International Group for the Psychology of Mathematics Education* (Vol. 1, p. 319). Prague, Czech Republic.
- Uptegrove, E. & Maher, C. (2005). Students building mathematical ideas through communication. In G. Lloyd, M. Wilson, J. Wilkins, & S. Behm (Eds.), *Proceedings of the 27th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (CD-ROM)*, Roanoke, VA.
- Uptegrove, E. & Maher, C. (2004). Students building isomorphisms. In M. Høines & A. Fuglestad (Eds.), *Proceedings of the 28th Conference of the International Group for the Psychology of Mathematics Education* (Vol. 4, pp. 352-360). Bergen, Norway.
- Uptegrove, E. & Maher, C. (2004). From concrete representations to abstract symbols. In D. McDougall & J. Ross (Eds.), *Proceedings of the 26th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. 2, pp. 577-584). Toronto, Canada.
- Uptegrove, E. (2003). Understanding Pascal's triangle. In N. Pateman, B. Dougherty, & J. Zilliox (Eds.), *Proceedings of the 2003 Joint Meeting of PME and PMENA* (Vol. 1, p. 261). Honolulu, HI.
- Uptegrove, E. (2001). Use of technology in data analysis of a long-term longitudinal study. In C. Maher, R. Speiser, & C. Walter (Eds.), *Proceedings of the Twenty-Third Annual Meeting, North American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. 2, pp. 1023-1024). Snowbird, UT.

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Conference Presentations

Reynolds, S. & Uptegrove, E. (2008). *Using manipulatives to construct mathematical meaning*. 32nd Annual Conference of the National Association of Developmental Educators, Boston, MA.

Uptegrove, E. (2006). *Building mathematical connections through communications*. Special Interest Group of the Mathematical Association of America - Ninth Conference on Research in Undergraduate Mathematics Education (SIGMAA on RUME). Piscataway, NJ.

Other Presentations

Uptegrove, E. (2006). *Pascal's Triangle, personal representations, and standard notation*. Invited lecture presented on November 13, 2006 as part of the Fall 2006 lecture series of the Robert B. Davis Institute for Learning at the Rutgers University Graduate School of Education.

Uptegrove, E. (2005). *Pascal's Triangle as assimilation paradigm*. Invited lecture presented on November 28, 2005 as part of the Fall 2005 lecture series of the Robert B. Davis Institute for Learning at the Rutgers University Graduate School of Education.

Education

- BA Mathematics, *with honors*; Douglass College, New Brunswick, NJ.
- MS Mathematics; New York University, NY.
- EdD Mathematics Education; Rutgers University Graduate School of Education; New Brunswick, NJ. Dissertation title: *To symbols from meaning: Students' investigations in counting*. Dissertation advisor: Dr. Carolyn A. Maher.

Membership in Professional and Honorary Organizations

- Association of Mathematics Teacher Educators (NJ Chapter)
 - Webmaster
- International Group for the Psychology of Mathematics Education
 - Reviewer for the North American Chapter
- Mathematical Association of America
 - Member of the executive board of the NJ Section
- National Association of Developmental Educators
- National Council of Teachers of Mathematics
- Phi Beta Kappa