

Carolyn Yackel

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Employment History

June 2007 – Present Associate Professor of Mathematics, Mercer University
August 2001 – May 2007 Assistant Professor of Mathematics, Mercer University
August 1998 – July 2001 Max Zorn Visiting Assistant Professor of Mathematics,
Indiana University

Education

May 1998 The University of Michigan, **Ph.D., Mathematics**
Thesis Advisor: Dr. Melvin Hochster
Thesis title: *Asymptotic Behavior of Annihilator Lengths in Certain Quotient Rings*
Mathematical Field: Commutative Algebra
May 1994 The University of Michigan, **M.S., Mathematics**
June 1992 The University of Chicago, **S.B., Mathematics**

Research Interests

Mathematics and Art, especially the Fiber Arts
Mathematics Education (97)
Scholarship of Teaching and Learning
Commutative Algebra (13)

Teaching Experience

Standard Semester Courses

University 101 (1 credit hour introduction to being a college student), Mercer University,
3 sections
First Year Seminar: Engaging The World (4 credit hour critical thinking, reading, and
writing course), Mercer University, 4 sections
Finite Mathematics, Mercer University (Liberal Arts Mathematics Course), 3 sections total
2 sections as an innovative mathematics and art course taught through the construction of craft.
1 standard section
Indiana University (general education discrete mathematics course), 2 sections total
Elementary Statistics, Mercer University, 4 sections total
Precalculus, Mercer University, 1 section total
Calculus for the Social Sciences, Mercer University, 4 sections total
Calculus I, Mercer University, 14 sections total
Indiana University, 5 sections total
University of Michigan, 2 sections total
University of Chicago, Junior Tutor (TA and grader for micro-sections of Calculus sequence),
4 quarters
Calculus II, Mercer University, 17 sections total
Indiana University, 2 sections total
University of Michigan, 3 sections total
Calculus III, Mercer University, 4 sections total

University of Michigan, TA and grader for 4 sections of Calculus 3
Discrete Mathematics, Mercer University, 3 sections total
 1 section with *Discrete Mathematics with Applications*, Fourth Edition, Epp
 2 sections with *Discrete Mathematics with Applications*, Third Edition, Epp
Introduction to Abstract Mathematics (proof bridge course), Mercer University, 3 sections total
Probability and Statistics, Mercer University, 2 sections total
Linear Algebra, Mercer University, 1 section total
Number Theory, Mercer University, 1 section total
Modern Algebra for Secondary Teachers, Indiana University, 2 sections total
Abstract Algebra I and II, Mercer University, two times, two semesters each
Introduction to Commutative Algebra (Graduate Course), Indiana University, 1 section

In the above courses, I have made use of textbooks across the spectrum of teaching philosophies and have often written my own materials. I have also used the following formats and teaching strategies among others: highly interactive lecture, discussion, student presentations, in-class group work, group homework/ projects, daily in-class problems, take-home quizzes/exams, papers, exploratory projects, mathematical journals, web based homework (WebWork, WebAssign, and MyStatLab), and the computer algebra systems *Maple* and *Macaulay 2*. I have also explicitly discussed how to read math and how to write math in courses at multiple levels.

Workshops Given

November 2012 *Basic Temari Workshop*, temari workshop for community members
 on two center design, ninth grade mathematical level, broad range of student levels
 July 2012 *Teaching Temari: Geometrically Embroidered Spheres in the Classroom*, Bridges
 Towson Family Day Temari Making Workshop, C8 design, graduate school
 mathematical level, broad range of student levels
 July 2012 *Bridges Prep Workshop*, temari workshop for community members, C8 design,
 high school mathematical level, medium range of student levels
 April 2012 *Temari Workshop*, temari workshop for students and faculty at Kennesaw State
 University, invited workshop connected with Infinite Horizons Lecture, C8 design,
 upper undergraduate math major level of mathematics, low range of student levels

Advising

2004-2007, 2009-2013 Summer advisor to incoming first year students
 2004-2008 Advised 10 mathematics majors
 2002-2012 Advised 45 beginning students

Special Teaching Related Experiences

Junes *AP Reader*, Graded the Calculus AP exam (2004, 2006, 2008, 2009, 2011, and 2013)
 2006-2007 *Supervisor* for undergraduate researching sudoku.
 2005 *Supervisor* for summer research assistant on Mathematics Education project.
 2004 *Teaching Assistant*, Origami in Undergraduate Mathematics Courses, for
 AMS Mini-Course given by origami math expert Tom Hull, JMM, Phoenix.
 2001-2003 *Supervisor*, Indiana University REU
 1997 and 1998 *Graduate Student Associate*, The University of Michigan Math Camp
 1992 *Counselor*, PROMYS at Boston University

Grants, Awards, Fellowships

- 2004, 2006, 2008, & 2010 *MAA NSF-RUMC Grant Numbers DMS-0241090, DMS-0536991, DMS-536991, and DMS-0846477* support for four conferences for undergraduate research in mathematics. (Mathematics Association of America Regional Undergraduate Mathematics Conference Grants funded by the Department of Math. Sciences of the NSF)
- 2006 *Teaching Development Grant* to create innovative section of Finite Mathematics taught via crafts.
- 2005 *Faculty Development Grant* to support a summer research student working in Mathematics Education.
- 2002 *Association for Women in Mathematics (AWM) Sonya Kovalevsky Day Grant*
- 2001 *Student Government Association Professor of the Month, November*
- 2000 *Teaching Excellence Recognition Award*
- 1999 *AWM Travel Grant*
- 1999 *International School on Computer Algebra Student, Torino, Italy*
One of 37 graduate students and Ph.D.s selected globally.
- 1998-1999 *Project NExT Fellow*
- 1998 *AWM Workshop Participant, Joint Mathematics Meetings (JMM), Baltimore*
One of 20 women graduate students and recent Ph.D.s selected nationally.
- Three semesters 1995-1998 *Research Assistant, The University of Michigan*
- Three semesters 1992-1994 *U.S. Department of Education Fellowship*

Publications (Peer-reviewed unless otherwise noted)

- Yackel, Carolyn. Teaching Temari: Geometrically Embroidered Spheres in the Classroom.
In *Proceedings of the 2012 Bridges Towson Conference*, Robert Bosch, Douglas McKenna, and Reza Sarhangi, eds., pp. 563–566. Tessellations Publishing, Phoenix, AZ, USA. 2012.
- Yackel, C. A. In Pursuit of Dancing Squares. *Math Horizons* September 2011, 26, 19.
- Yackel, Carolyn. AB1: Particle Motion. *The North Carolina Association of AP Math. Teachers Newsletter* Summer 2011, 19(2). (Solicited; not peer-reviewed)
- belcastro, s-m and Yackel, C. A., eds. (2011) *Crafting by Concepts*. AK Peters. (book)
Introduction (Update on the field and reflection on pedagogy), s-m belcastro and C. A. Yackel
Spherical Symmetries of Temari (chapter), C. A. Yackel with s-m belcastro
Group Actions in Cross-stitch (chapter), M. Shepherd with s-m belcastro and C. A. Yackel
- Yackel, C. A. Marking a Physical Sphere with a Projected Platonic Solid. In *Proceedings of the 2009 Bridges Banff Conference*, Banff, Canada, Craig S. Kaplan and Reza Sarhangi, eds., pp. 123–130. 2009.
- belcastro, s. m. and Yackel, C. A. The Seven-Colored Torus: Mathematically Interesting and Non-trivial to Construct. Chapter in Pegg, E. Jr., Schoen, A., and Rodgers, T., eds. (2009) *Homage to a Pied Puzzler*. AK Peters.
- belcastro, s. m. and Yackel, C. A., eds. (2007) *Making Mathematics with Needlework: Ten Papers and Ten Projects*. AK Peters. (book)
Introduction (Survey of the field and pedagogical discussion), s-m belcastro and C. A. Yackel
Knitting Algebraic Socks (chapter), C. A. Yackel
(K)Not Cables, Braids (chapter), s-m belcastro, A. Szczepanski, and C. A. Yackel
Reprinted three times:
Mitt. Dtsch. Math.-Ver. **16**(1) (2008), 26–34.
EMS newsletter, Issue 70, December 2008, 19–25.
Math. Adv. in Transl., Issue 4, 2012, 336–342. (In Chinese)

- Stop Those Pants! (chapter) with s-m belcastro
- Yackel, C. A. and Denny, J. K. Partial fractions in Calculus, Number Theory, and Algebra. *The College Math Journal*. **38**(5) (2007), 362-374.
- belcastro, s. m. and Yackel, C. A. About Knitting. *Math Horizons* November 2006, 24-27, 39.
- DeLong, M., Winter, D., and Yackel, C. A. Mental Maps and Learning Objectives: the FAST-SLO Algorithm for Creating Student Learning Objectives. *PRIMUS* **XV**(4) (2005), 307-338.
- DeLong, M., Winter, D., and Yackel, C. A. Student Learning Objectives and Mathematics Teaching. *PRIMUS* **XV**(3) (2005), 226-258.
- Denny, J. and Yackel, C. Implementing and Teaching with Webwork at Mercer University. In *Proceedings of the ASCUE Conference*, Myrtle Beach, SC, pp. 85-93. 2005. (not peer-reviewed)
- Yackel, C. A. Embroidering Polyhedra on Temari Balls. In *Math+Art=X*, Proc. Boulder, CO Conf., pp. 183-187. 2005.
- Denny, J. K. and Yackel, C. A. Temperature models for Ware Hall. *The College Math Journal*. **35**(3) (2004), 162-170.
- DeLong, M., Winter, D., and Yackel, C. A. Management Motivation and Student-Centered Instruction II: Applications. *PRIMUS* **XIII**(3) (2003), 223-247.
- DeLong, M., Winter, D., and Yackel, C. A. Management Motivation and Student-Centered Instruction I: Analytical Framework. *PRIMUS* **XIII**(2) (2003), 97-123.
- Winter, D. and Yackel, C. A. Novice Instructors and Student-Centered Instruction: Understanding Perceptions of and Responses to Challenges of Classroom Authority. *PRIMUS* **X**(1) (2000), 289-318.
- Yackel, C. A, Bounds on annihilator lengths in families of quotients of Noetherian rings, *J. Alg.* **228** (2000), 763-792.
- Winter, D. and Yackel, C. A. (1998) Graduate Student Instructors and Classroom Authority. Ann Arbor, MI.: Department of Mathematics, The University of Michigan.
- Beier, J. and Yackel, C. A. Groups Associated to Tetraflexagons. Chapter in MOVES volume. Rosenhouse, J., ed. (2014?) Submitted.
- Yackel, C. A. Using a Paper Shredder to Develop the Concept of Riemann Sums. Solicited by PRIMUS and in preparation.
- Beier, J and Yackel, C. A. Student Sophistication Levels: A Framework for Aiding Student Development. In preparation.

Presentations 1998–Present

Talks

- | | |
|----------------|---|
| March 2014 | <i>Groups of Tetraflexagons</i> , Gathering for Gardner XI, Invited Participant |
| January 2014 | <i>Families of $p4m$ Knitted Square Tiles</i> , AMS Special Session on Mathematics and Mathematics Education in Fiber Arts, JMM, Baltimore |
| September 2013 | <i>Beautifying Your Life with Mathematics</i> , SUMS (Shenandoah Undergraduate Mathematics Conference), Invited closing speaker |
| August 2013 | <i>Symmetry Groups of Tetraflexagons</i> , MOVES at MoMath, Invited speaker |
| March 2013 | <i>Spherical Symmetry Groups and Temari Balls</i> , Southern Polytechnic State University Mathematics Colloquium, Invited speaker |
| February 2013 | <i>Fun, Flexagons and Algebra, Pick Two</i> , Mercer University Physics Seminar, Invited speaker |
| January 2013 | <i>Stellations</i> , Mercer University Math Chat |
| January 2013 | <i>Developing Riemann Sums Via a Paper Shredder</i> , MAA session |
| | Touch it, Feel it, Learn it: Tactile Learning Activities in the Undergraduate |

- Mathematics Classroom, JMM, San Diego
- November 2012 *Basic Temari Workshop*, temari workshop for community members on two center design, ninth grade math level, broad range of student levels
- July 2012 *Teaching Temari: Geometrically Embroidered Spheres in the Classroom*, Bridges Towson Family Day Temari Making Workshop, C8 design, graduate school math level, broad range of student levels
- July 2012 *Bridges Prep Workshop*, temari workshop for community members, C8 design, high school mathematical level, medium range of student levels
- April 2012 *Mathematical Art Slide Show*, Mercer University Math Chat
- April 2012 *Temari Workshop*, temari workshop for students and faculty at Kennesaw State University, invited workshop connected with Infinite Horizons Lecture, C8 design, upper undergraduate math major level, low range of student levels
- April 2012 *Spherical Symmetries Depicted in Temari*, Infinite Horizons Lecture, Kennesaw State University, Invited speaker
- March 2012 *4+X Symmetries in Temari*, Gathering 4 Gardner X, Invited participant
- January 2012, September 2012, & February 2013 *Exploring the Hyperbolic Plane*, Knitting a Coral Reef Class, Invited Guest Speaker, three occasions
- November 2010 *Counting and Illustrating Reptiles*, Invited speaker, Special Session on Mathematics and the Arts, AMS regional meeting, Richmond, VA
- April 2010 *L-reptile Tabletops and Reptile result*, Mercer University Math Chat
- March 2010 *There's More than One Way to Tile that Reptile*, Gathering 4 Gardner 9, Invited participant
- September 2009 *Classifying Pretty Thread Balls: Why Conway's Discrete Spherical Symmetry Groups Aren't Enough*, Physics Seminar, Mercer University.
- August 2009 *Polyhedral Thread Balls*, MAA session on Resources for Teaching Math and the Arts, MathFest, Portland, Oregon
- July 2009 *Marking a Projected Sphere with a Projected Platonic Solid*, Bridges: Renaissance Banff, Conference for connecting mathematics with the arts, Banff, Canada
- March 2009 *Eight Coloring Pants—Why, How, and Will They Be Cool or Ugly?*, Math Club Talk, Saint Mary's College of Maryland, Invited speaker
- March 2009 *Embroidering Geometry onto a Styrofoam Ball*, Math and Science Colloquium Talk, Saint Mary's College of Maryland, Invited speaker
- January 2009 *Temari Math and Geometry on the Sphere*, AMS Special Session on Mathematics and Mathematics Education in Fiber Arts, JMM, Washington, DC
- November 2008 *The Permutahedron*, Colloquium talk at Mount Holyoke College, Invited speaker
- September 2008 *The Captivating Permuathedron*, Lunch Colloquium Series Talk at Smith College, Invited speaker
- April 2008 *Math Meets Reality—Realizing Some Mathematical Ideas in Knitting*, MD-DC-VA MAA Section Meeting, Invited workshop
- March 2008 *Josphine's Hyperbolic Pants*, Gathering 4 Gardner 8, Invited participant
- February 2008 *Platonic Solids in Genus 0, Genus 2, Temari, and Origami*, Math Club Talk, Spelman College, Invited speaker
- February 2008 *Fashioning Pants out of Octagons and other Implausible (Hyperbolic) Notions*, Special Colloquium Sponsored by the Mathematics and Art Departments, Spelman College, Invited speaker
- January 2008 *Kinesthetic Math: Is that like Mathematical Calisthenics? (No.)*, MAA

- July 2006 Contributed Paper Session, JMM, San Diego
The Permutahedron, Hampshire College Summer Studies in Mathematics, a competitive math program for highly gifted high school students from across the nation.
- March 2006 *Knitting and Crocheting Orientable Surfaces*, Gathering 4 Gardner 7, Invited participant.
- January 2006 *Helping Bridge Course Students Begin to Write Proofs*, MAA Session on Research on the Teaching and Learning of Undergraduate Mathematics, Joint Mathematics Meetings, San Antonio.
- November 2005 *Once You Know Something, Its Everywhere You Look: The Symmetry Groups of Temari Balls*, Scientific Research at Mercer Seminar
- October 2005 *Serre Prep Talk: What is Quadratic Reciprocity? and a Few Other Definitions*, Given to Mercer Mathematics Faculty in preparation for Serre's Colloquium at Emory.
- June 2005 *Embroidering Polyhedra on Temari Balls*, Math+Art=X International Conference, Boulder, CO
- March 2005 *Does WebWork Work? Determining the Effectiveness of a Teaching Strategy*, Scientific Research at Mercer Seminar
- January 2005 *Realizing Algebraic Structures Through Knitting*, AMS Special Session on Mathematics and Mathematics Education in Fiber Arts, Joint Mathematics Meetings, Atlanta.
- October 2004 *How to be a Good Grad Student*, lecture for third year honors students. (Also given October 2005, 2006, and 2007.)
- September 2004 *The Permutahedron or What I did on my Summer Vacation*, Mercer University Physics Seminar.
- July 2004 *Rewriting Fractions: Exploring Partial Fractions Using Quotients of Integers* and *The Permutahedron*, Hampshire College Summer Studies in Mathematics.
- July 2004 *Instructors' Implicit Beliefs and Their Use of Instructional Materials*, Poster, International Congress of Mathematics Educators X, Copenhagen
- April 2004 *The FAST-SLO Algorithm for Lesson Planning*, Joint workshop with Matt DeLong and Dale Winter, Indiana Section meeting of the MAA.
- February 2004 *The Golden Ratio: Introducing the movie Pi*, Presentation with activity preceding a Dulcimer showing of Pi
- January 2004 *Assessment of the Mathematics Major at Mercer University*, Supporting Assessment of Undergraduate Mathematics Poster Session, Joint Mathematics Meetings, Phoenix
- November 2003 *Using Concept Maps for Instructional Planning*, Workshop given with Matt DeLong and Dale Winter, Lilly Conference on College Teaching, Oxford, OH
- August 2003 *Talk on Talks: How to Give a Math Talk*, Talk for Indiana University REU students
- July 2003 *Binomial Coefficients mod (p) and Rewriting Fractions: Exploring Partial Fractions Using Quotients of Integers*, Hampshire College Summer Studies in Mathematics.
- April 2003 *Teaching with WebWork*, Joint talk with J. K. Denny, Mercer University Physics Seminar
- March 2006 and April 2002 *Cryptography*, Mercer University Sonya Kovalevsky Day. Talk and activities for local high school students.

- March 2002 *Pre-Calculus Student Experimentation with Polynomial Functions or How People with Different Implicit Learning Theories Use the Same Cooperative Learning Activity*, AMS Special Session on Collaborative Learning, Regional Mathematics Meetings, Atlanta.
- July 2001 *The Janitor's Problem: Sweeping Corners of an n -Dimensional Staircase*, Talk for Indiana University REU students
- April 2001 *Asymptotically Bounding Lengths of Certain Koszul Homologies* Midwest Algebra Weekend, Columbia, MO
- January 2001 *Koszul Homology and Frobenius Powers of Quotient Ideals* AMS Session on Field Theory and Commutative Rings, Joint Mathematics Meetings, New Orleans.
- April 2000 *Staircases*, Indiana University Algebra Seminar
- February 2000 *Why Koszul Homology is Better Than You Thought*, Indiana University Algebra Seminar
- October 1999 *Čech Cohomology*, Algebraic Geometry Learning Seminar
- August 1999 *Multinomial Coefficients mod (p)* , Talk for Indiana University REU students
- July 1999 *Divisors*, Algebraic Geometry Learning Seminar, two talk series
- November 1998 *Studying Socles: Background and Examples* and *Studying Socles: Bounding Some Annihilator Lengths* Indiana University Algebra Seminar, two talk series.

Art Shows 2008–Present

- July 2012 *Spherical Symmetries in Temari and Temari Truncations*, Bridges Towson Art Show, juried exhibit
- March 2012 *Spherical Symmetries and Truncations*, G4GX exhibit space, contributed piece
- January 2012 *Math + Art Collaborative Group Exhibition*, Saint Mary's College of Indiana Moreau Gallery, Invited Artist
- November 2011 *Threads of Art*, Joint Art Show with Anna Wilds-Pritchard at 567 Gallery, Macon, GA, Invited Artist
- October 2011 *Truncated Platonic Solids*, Fiber Arts Show at Macon Arts Gallery, Invited Artist
- March 2010 Assorted Temari Balls, Pittsburgh Knit and Crochet Festival, Invited Artist
- March 2010 *L-tile tables*, G4G9 exhibit space, contributed piece
- August 2009 *Josephine's Hyperbolic Pants*, Mathematical Art Exhibit, Mathfest, Portland, OR, contributed piece
- January 2009 *Temari Quintuplets*, Mathematical Fiber Arts Exhibit, JMM, Washington, DC, juried exhibit
- January 2008 *Plato's Hoedown*, Mathematical Art Exhibit, JMM, San Diego

Service

Reviewing

- 2009, 2011–2014 Member of the Bridges Conference Programme Committee
- 2013 External reviewer for faculty research grant at another college
- 2013 *Journal of Mathematics and the Arts*
- 2010, 2013 *PRIMUS*
- 2012 NSF Grants
- 2006–2009 *College Mathematics Journal*
- 2004–2013 publishers for Calculus books, proofs class books, and an abstract Algebra book

Promoting Mathematics, emphasis on developing the field of Mathematical Fiber Arts

- 2001–2014 Co-organizer of annual Knitting Circle at the AMS-MAA JMM
- 2005, 2009, & 2014 Co-organizer of AMS Special Session on Mathematics and Mathematics Education in Fiber Arts, JMM
- 2005, 2009, & 2014 Co-curator of Fiber Arts Exhibit at the JMM (juried 2009, 2013)
- November 2012 Organized and hosted a Celebration of Mind in honor of Martin Gardner
- April 2011, April 2009, April 2007, & April 2005 Co-organizer of Mercer University Undergraduate Research in Mathematics Conference, partially funded by MAA NSF-RUMC grants DMS-0241090, DMS-0536991, DMS-536991, and DMS-0846477, respectively, with emphasis after 2005 on coordinating the writing and grading of the friendly competition.
- 2011-2013 Co-organizer of Math Department Honors Day
- 2010-2013 Helped staff department Tremendous Tuesdays
- 2005–2008 AWM Education Committee member, co-chair with Suzanne Lenhart 2006
- 2004–2006 AWM Shafer Prize Selection Committee member, Chair 2006
- 2004 Judge of Undergraduate Research Poster Session, JMM, Phoenix
- 2002-2006 Co-organizer of Sonya Kovalevsky Day
- 2003 Organized Mathematics Awareness Month table in the student center.
- 2002 Panelist for the University of Chicago’s Taking the Next Step-Careers in Mathematics
- 2001-2007, 2009-2012 Assisted with annual Mercer High School Math Contest
- 2002-2004, 2010-2012 Created annual Mercer High School Math Contest Ciphering Exam
- 2011–2012 Suggested Short Math YouTube Videos Appropriate to High School Students attending Contest
- 2012 Designed and Distributed bonus materials for teachers attending Contest

Facilitating Peer Engagement with the Profession

- 2005–2014 MAA Committee on the Participation of Women member 2005, Chair 2006–2009, 2010–2014 Formal “friend” of the committee.
- 2013 Mentor for Association for Women in Mathematics workshop participants, JMM San Diego
- 2011–2014 Mercer Faculty Mentorship program, mentor to Monika Sahawney (2011-2012), mentor to Steve Simmerman (2013-2014)
- 2006-2007, 2008-2009, 2011-2012 Project NExT mentor/consultant
- 2006 Project NExT Co-Organizer of sessions for returning fellows for 2007, JMM San Antonio
- 2005 Co-organizer of AMS Special Session on Commutative Algebra, JMM Atlanta
- 2002 Panelist for Project NexT panel on the Hiring Process
- 2001–2004 Organizer of Math Department Teaching Lunches

Service to the Mercer Mathematics Department

- 2002–2003, 2005-2006, 2007–2008, 2009–2010, 2011-2012 Read Applications/Member of Department Hiring Committee member
- 2010 Department committee on course renumbering, chair
- 2010 Department committee on upper division course offerings, member
- 2002, 2005 Calulus Textbook Selection Committee member

- 2002–2004, 2007 Department Assessment Committee member
- 2001–2002 Math Department Calculus Committee member
- 2001 Made crucial contact securing MathSciNet, the major mathematics database, for Mercer University at a highly discounted rate

Service to the Indiana University Mathematics Department

- 1998–2001 Co-organizer of semiannual Indiana University—University of Cincinnati Algebra Day conference
- 1999–2001 Organizer of semesterly departmental Women in Mathematics gatherings.
- 2000–2001 Mathematician/participant on CEMI grant to implement Japanese concept of Lesson Study Groups in local setting. Principal investigator: Professor Cathy Brown, Mathematics Education, Indiana University.
- 1999–2000 Member of a team working to implement curricular change for the “Brief Calculus” course.

Service to the University of Michigan Mathematics Department

- 1997–1998 Co-organizer of Educational Issues Seminar, Department of Mathematics
- 1992–1998 Women in Math member
- 1996–1998 Mathematics Department Representative to Graduate Student Forum, appointed position
- 1994–1996 Mathematics Graduate Student Liaison Committee member

Other Service and Committee Work

- 2009–2011, 2013–2014 College of Liberal Arts Curriculum Committee
- 2011–2012 College of Liberal Arts Tenure Committee
- 2011, 2013 Pre-health Mock Interviews interviewer
- 2006–2009 MAA Human Resources Coordinating Committee (became Council on the Profession) member
- 2006–2008 House of Delegates representative from College of Liberal Arts to University Committee
- 2001–2006 Teacher Education Committee member
- 2006 Honors Program Advisory Board member
- 2005–2006 Women and Gender Studies Advisory Board sabbatical replacement member second semester, non-voting observer first semester
- 2003–2006 Co-advisor to the Dulcimer, the campus literary magazine
- 2006 Invited participant in NSBE and SWE (Society of Women Engineers) fundraising Faculty Talent Show
- 2005, 2006 Phi Eta Sigma Scholarship Selection Committee member
- 2001–2005 Interviewer of student scholarship candidates
- 2001–2005 Participated in Student Move-In
- 2002–2003 Judicial Committee member
- 2002 Panelist at two New Faculty Orientation sessions

Professional Development

Workshops

- January 2013 *Teaching Introductory Statistics (for instructors new to teaching intro stats)*, MAA mini course
- October 2011 *SoTL Symposium of the South*, Georgia Southern workshop to keep faculty up to date about developments in the scholarship of teaching and learning.
- June 2011 *Geometry and Art*, MAA PREP workshop

- May 2008 *Expository Writing*, MAA PREP workshop
 January 2007 *Banff International Research Station Workshop on Mathematics, and the Arts*, Invited Participant
 May 2005 *Digital Storytelling Workshop*, Mercer University
 May 2004 *Geometric Combinatorics*, MAA PREP workshop
 January 2003 *Assessment at the Department Level*, MAA SAUM workshop
 Summer 2000 *Boston College Case Studies Workshop* for training math teaching assistants
 1999-2000 *Indiana University Scholarship of Teaching and Learning Seminar Series*

Courses

- June 1999 *COCOA Summer School*, Torino, Italy, one of 25 participants worldwide.
 Summer 1997 *Cooperative Learning In Undergraduate Mathematics Education* On-line, A three week on-line course offered by the MAA.
 1993–1994 *Readings in Mathematics Education*, A graduate course offered through The University of Michigan School of Education.
 1993–1994 *Technology in Mathematics Education*, A graduate course offered through The University of Michigan School of Education.

Professional Memberships

- American Mathematical Society, 1992–present
 Association for Women in Mathematics, 1992-present
 Mathematics Association of America, 1996-present, SIGMAA RUME and SIGMAA Art Sigma Xi, 2005-present
 Council for Undergraduate Research, 2005-present
 Japanese Temari Association (Honka), 2012-present

References

- Professor Julie Beier, Earlham College
 Dr. sarah-marie belcastro, Sarah Lawrence College/Smith College
 Professor Darrell Haile, Indiana University
 Professor Kedrick Hartfield, Chair, Mercer University
 Professor Margaret Symington, Mercer University