

**Katrina Piatek-Jimenez**  
Professor  
Mathematics Department

**I. PERSONAL DATA**

**Address:** Pearce Hall, Room 117A  
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**II. EDUCATION**

**August, 2004**

Ph.D., Mathematics, Mathematics Education  
University of Arizona, Tucson, AZ  
Dissertation title: *"Undergraduate Mathematics Students' Understanding of Mathematical Statements and Proofs."*  
Advisor: Dr. Marta Civil

**June, 1999**

B.S., Mathematics  
University of California at Santa Barbara, Santa Barbara, CA  
Summa Cum Laude (Highest Honors)

**III. EMPLOYMENT HISTORY**

**August, 2015 – present**

Professor of Mathematics  
Department of Mathematics  
Central Michigan University  
Mount Pleasant, MI 48859

**August, 2010 – July, 2015**

Associate Professor of Mathematics  
Department of Mathematics  
Central Michigan University  
Mount Pleasant, MI 48859

**August, 2004 – July, 2010**

Assistant Professor of Mathematics  
Department of Mathematics  
Central Michigan University  
Mount Pleasant, MI 48859

**August, 1999 – June, 2004**

Graduate Teaching Assistant  
 Department of Mathematics  
 University of Arizona  
 Tucson, AZ 85721

**IV. TEACHING EXPERIENCE****University Level Teaching Experience****Central Michigan University**

- A Survey of Research in Collegiate Mathematics Education
- Research in Collegiate Mathematics Education
- Methods for Teaching College Mathematics
- Mathematics in Popular Culture
- Introduction to Analysis
- Discrete Mathematics
- Quantitative Reasoning for the Informed Citizen
- Mathematics: A Modeling Approach
- College Geometry
- Geometry for K-8 Teachers
- Problem-Based Algebra and Calculus for Secondary Teachers
- History of Elementary Mathematics for K-8 Teachers
- Mathematics for Elementary Teachers II

**University of Arizona**

- Calculus I
- Business Calculus
- Pre-Calculus
- Plane Trigonometry
- Understanding Elementary Mathematics
- Formal Mathematical Reasoning and Writing (recitation sessions)

**K-12 Level Teaching Experience**Fall 2003

Teaching Practicum at Mission Manor Elementary School. Tucson, AZ. *I worked with a first grade teacher daily in her classroom teaching mathematics.*

Fall 2002

Teaching Practicum at Tucson High Magnet School. Tucson, AZ. *I spent three hours a week observing classes and working one-on-one with high school students.*

Spring 2001

Teaching Practicum at Challenger Middle School. Tucson, AZ. *A colleague and I worked with a sixth grade bilingual classroom. Every other week we conducted projects with them in order to teach them the concepts of area and perimeter.*

## V. CREATIVE AND SCHOLARLY ACTIVITY

### Refereed/Reviewed Publications

- **Piatek-Jimenez, K.**, Nouhan, M., & Williams, M. (2020). College Students' Images of Mathematicians and Mathematical Careers. *Journal of Humanistic Mathematics*, 10(1), 66-100.
- McGraw, R., **Piatek-Jimenez, K.**, Wiest, L., Dias, A., Goncalves, H., Hall, J., ... (2019). Working group on gender and sexuality in mathematics education: Examining the experiences of people across cultures, *Proceedings of the Forty-First Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.** & Dias, A. (in press). Gender Equity in Mathematics? In D. Aparecida Peralta & J. Augusto Pacheco (Eds.), *Curriculum Reforms and Large Scale Assessments: Current Issues in Education*. Portugal: Porto Publishing Company.
- **Piatek-Jimenez, K.** (in press). Exploring the Benefits of Recycling, In G. Karaali & L. Khadjavi (Eds.), *Mathematics for social justice: Perspectives and resources for the college classroom, Volume II*. Mathematical Association of America.
- **Piatek-Jimenez, K.** (in press). Super Size Me: Exploring the Nutrition of Fast Food, In G. Karaali & L. Khadjavi (Eds.), *Mathematics for social justice: Perspectives and resources for the college classroom, Volume II*. Mathematical Association of America.
- **Piatek-Jimenez, K.**, Cribbs, J., & Gill, N. (2018). College students' perceptions of gender stereotypes: making connections to the underrepresentation of women in STEM fields. *International Journal of Science Education*, 40(12), 1432-1454.
- **Piatek-Jimenez, K.**, McGraw, R., Wiest, L., Hall, J., Hodge, A., Kersey, E., ... (2018). Working group on gender and sexuality in mathematics education: Linking the past to the future, *Proceedings of the Fortieth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.**, Nouhan, M., & Williams, M. (2017). College students' gender and racial stereotypes of mathematicians, *Proceedings of the Thirty-Ninth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- Huang, X., Cribbs, J., & **Piatek-Jimenez, K.** (2016). Understanding undergraduates' math-related perceptions, *Proceedings of the Thirty-Eighth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.** & Phelps, C. (2016). Using Disney's *Frozen* to motivate mathematics: Bringing fractals into the classroom, *Australian Primary Mathematics Classroom*, 21(2), 18-25.

- **Piatek-Jimenez, K.** (2016). Using Media to Problematize Gender Stereotypes in the Mathematics Classroom. In D. White, S. Crespo, & M. Civil (Eds.), *Cases for teacher educators: Facilitating conversations about inequities in mathematics classrooms*. Charlotte, NC: Information Age Publishing.
- Cribbs, J., **Piatek-Jimenez, K.**, & Mantone, J. (2015). The relationship between mathematics identity and personality attributes with students' career goals, *Proceedings of the Thirty-Seventh Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.** (2015). On the persistence and attrition of women in mathematics, *Journal of Humanistic Mathematics*, 5(1), 3-54.
- **Piatek-Jimenez, K.**, Madison, M., & Pzybyla-Kuchek, J. (2014). Equity in mathematics textbooks: A new look at an old issue, *Journal of Women and Minorities in Science and Engineering*. 20(1), 55-74.
- **Piatek-Jimenez, K.** (2013). Mathematics students transitioning into the workforce: Influences on career choice, *Proceedings of the Thirty-Fifth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- Madison, M. & **Piatek-Jimenez, K.** (2012). Equity in mathematics textbooks: A report on progress, *Proceedings of the Thirty-Forth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- Pzybyla, J. & **Piatek-Jimenez, K.** (2012). Gender equity in middle school mathematics textbooks, *Proceedings of the Thirty-Forth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.**, Marcinek, T., Phelps, C., & Dias, A. (2012). Helping students become quantitatively literate. *Mathematics Teacher*. 105(9), 692-696.
- Marcinek, T., Dias, A., & **Piatek-Jimenez, K.** (2010). Numeracy for all college graduates? Challenges in designing a college competency requirement in quantitative reasoning. *Proceedings of the 17th International Conference of Adults Learning Mathematics*.
- **Piatek-Jimenez, K.** (2010). Students' interpretations of mathematical statements involving quantification, *Mathematics Education Research Journal*. 22(3), 41-56.
- **Piatek-Jimenez, K.** (2010). Book Review: Resources for Teaching Discrete Mathematics: Classroom Projects, History Modules, and Articles, *Mathematics Teacher*. 103(9), 701.
- **Piatek-Jimenez, K.**, & Alzaatreh, K. (2009). The Role of Advising in the Academic Decisions of Women Mathematics Majors at a Liberal Arts College, *Proceedings of the Thirty-First Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.** (2008). Images of mathematicians: A new perspective on the shortage of women in mathematical careers. *ZDM – The International Journal on Mathematics Education*, 40(4), 633-646.

- **Piatek-Jimenez, K.** (2008). The Pythagorean Theorem: Going beyond  $a^2 + b^2 = c^2$ , *On-Math – Online Journal of School Mathematics*, 6. [http://my.nctm.org/eresources/journal\\_home.asp?journal\\_id=6](http://my.nctm.org/eresources/journal_home.asp?journal_id=6)
- **Piatek-Jimenez, K.** (2008). Building intuitive arguments for the triangle congruence conditions, *Mathematics Teacher*. 101 (6), 463-466.
- **Piatek-Jimenez, K.** (2008). “So I’ve Chosen to Major in Math. Now What?”: Mathematics Students’ Knowledge of Future Career Options, *Proceedings of the Eleventh Conference on Research in Undergraduate Mathematics Education*. <http://www.rume.org/crume.html>.
- **Piatek-Jimenez, K.** (2007). May I Help You? Public Service as a Factor in Career Selection. *Proceedings of the Twenty-Ninth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education*.
- **Piatek-Jimenez, K. & Ghosh, S.** (2006). Factors that Motivate the Career Goals of Women Mathematics Students, *Proceedings of the Twenty-Eighth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.** (2005). Socio-mathematical Norms and Mathematical Practices of the Community of Mathematicians. In G. M. Lloyd, M. R. Wilson, J. L. M. Wilkins, & S. L. Behm (Eds.), *Proceedings of the Twenty-Seventh Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education* [CD-ROM]. Eugene, OR: All Academic.
- **Piatek-Jimenez, K.** (2003). Beginning Proof-Writing Students' Beliefs and Misconceptions about Mathematics and Mathematical Proof. In N. A. Pateman, B. J. Dougherty, & J. Zilliox (Eds.), *Proceedings of the Twenty-Seventh Annual Conference of the International Group for the Psychology of Mathematics Education, Volume 1*, 317.

### Non-Refereed/Reviewed Publications

- **Piatek-Jimenez, K. & Cribbs, J.** (2018). Making connections between gender stereotypes and the underrepresentation of women in STEM fields, *Association for Women in Science Magazine*.

### Conference Presentations

- McGraw, R., **Piatek-Jimenez, K.**, Wiest, L., Dias, A., Goncalves, H., Hall, J., ... (November 2019). *Working group on gender and sexuality in mathematics education: Examining the experiences of people across cultures*, Presented at the Forty-First Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, St. Louis, MO.
- **Piatek-Jimenez, K.**, McGraw, R., Wiest, Hall, J., Hodge, A., Kersey, E., ... (November 2018). *Working group on gender and sexuality in mathematics education: Linking the past to the future*, Presented at the Fortieth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Greenville, SC.
- **Piatek-Jimenez, K.**, Nouhan, M., & Williams, M. (October 2017). *College students' gender and racial stereotypes of mathematicians*, Presented at the Thirty-Ninth Annual

Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Indianapolis, IN.

- **Piatek-Jimenez, K.** (April 2017). *College students' stereotypes of mathematicians*. Presented at the Michigan MAA Section Annual Meeting, Big Rapids, MI. **Invited address.**
- Trapp, B., Murphy, B., Wilcox, L., **Piatek-Jimenez, K.**, Mehta, R., & Barrett, G. (January 2017). Building College Readiness with the SAT Suite of Assessment. Panel Presentation at the Joint Mathematics Meetings, Atlanta, GA.
- Huang, X., Cribbs, J., & **Piatek-Jimenez, K.** (November 2016). *Understanding undergraduates' math-related perceptions*, Presented at the Thirty-Eighth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Tucson, AZ.
- Cribbs, J., **Piatek-Jimenez, K.**, & Mantone, J. (November 2015). *The relationship between mathematics identity and personality attributes with students' career goals*, Presented at the Thirty-Seventh Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, East Lansing, MI.
- **Piatek-Jimenez, K.** (May 2014). *Influences on Career Selection by Women Mathematics Majors*, Presented at the Ninetieth Annual Meeting of the Michigan MAA and MichMATYC, Flint, MI.
- **Piatek-Jimenez, K.** (November 2013). *Mathematics students transitioning into the workforce: Influences on career choice*, Presented at the Thirty-Fifth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Chicago, IL.
- Madison, M. & **Piatek-Jimenez, K.** (November 2012). *Equity in mathematics textbooks: A report on progress*, Poster presented at the Thirty-Forth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Kalamazoo, MI.
- Pzybyla, J. & **Piatek-Jimenez, K.** (November 2012). *Gender equity in middle school mathematics textbooks*, Poster presented at the Thirty-Forth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Kalamazoo, MI.
- **Piatek-Jimenez, K.** (September 2009). *The Role of Advising in the Academic Decisions of Women Mathematics Majors at a Liberal Arts College*, Presented at the Thirty-First Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Atlanta, GA.
- **Piatek-Jimenez, K.** (May 2009). *Factors that Influence Career Aspirations of Women Mathematics Majors*, Presented at the 2009 MAA/MichMATYC Spring Meeting, Mount Pleasant, MI. **Invited address.**
- **Piatek-Jimenez, K.** (February 2008). *"So I've Chosen to Major in Math. Now What?": Mathematics Students' Knowledge of Future Career Options*, Presented at the Eleventh Conference on Research in Undergraduate Mathematics Education, San Diego, CA.
- **Piatek-Jimenez, K.** (October 2007). *May I Help You? Public Service as a Factor in Career Selection*, Presented at the Twenty-Ninth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Lake Tahoe, NV.

- **Piatek-Jimenez, K.** (November 2006). *Factors that Motivate the Career Goals of Women Mathematics Students*. Poster presented at the Twenty-Eighth Annual Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Merida, Yucatan, MX.
- **Piatek-Jimenez, K.** (February 2006). *Considering the Norms and Practices of the Community of Mathematicians when Analyzing an Advanced Undergraduate Mathematics Class*. Presented at the Conference on Research in Undergraduate Mathematics Education, Piscataway, NJ.
- **Piatek-Jimenez, K.** (October 2005). *Socio-mathematical Norms and Mathematical Practices of the Community of Mathematicians*. Presented at the Conference of the North American Chapter of the International Group for the Psychology of Mathematics Education, Roanoke, VA.
- **Piatek-Jimenez, K.** (February 2005). *Do Undergraduate Female Mathematics Students View Themselves as Future Mathematicians?* Presented at the Conference on Research in Undergraduate Mathematics Education, Phoenix, AZ.
- **Piatek-Jimenez, K.** (January 2005). *Students' Interpretations of Mathematical Statements Containing Multiple Quantifiers*. Poster presented at the 2005 Joint Mathematics Meetings, Atlanta, GA.
- **Piatek-Jimenez, K.** (September 2004). *A Survey of Graduate Programs in Mathematics Education*. Presented at the Michigan Undergraduate Mathematics Conference, Mount Pleasant, MI.
- **Piatek-Jimenez, K.** (January 2004). *Undergraduate Mathematics Students in a Transitional Course: Their Struggles and Strategies*. Poster presented at the 2004 Joint Mathematics Meetings, Phoenix, AZ.
- **Piatek-Jimenez, K.** (October 2003). *Struggles and Strategies of Undergraduate Students when Writing Proofs*. Presented at the Conference on Research in Undergraduate Mathematics Education, Phoenix, AZ.
- **Piatek-Jimenez, K.** (July 2003). *Undergraduate Students' Beliefs and Misconceptions About Proof*. Poster presented at the 2003 Joint Meeting of PME and PMENA, Honolulu, HI.
- **Piatek-Jimenez, K.** (February 2003). *Beginning Proof-Writing Students' Beliefs and Misconceptions about Mathematical Proofs*. Poster presented at the Mathematics Education and Mathematics in the 21st Century: The Roles of Outreach, Teacher Preparation, and Research on Teaching & Learning in a Research I Mathematics Departments, Tucson, AZ.

### Non-Conference Presentations

- **Piatek-Jimenez, K.** (November 2017). College Students' Perceptions of Mathematicians. Presented at Central Michigan University's mathematics department colloquium, Mount Pleasant, MI.
- **Piatek-Jimenez, K.** (March 2017). College Students' Perceptions of Mathematicians. Presented at Western Michigan University's mathematics department colloquium, Kalamazoo, MI. **Invited talk.**
- **Piatek-Jimenez, K.** (April 2015). Factors that influence the persistence and attrition of women in mathematics. Presented the University of Arizona's mathematics department

colloquium, Tucson, AZ. **Invited talk.**

- Dias, A., Marcinek, T., **Piatek-Jimenez, K.** & Smoke, L. (February 2010). *Developing a Quantitative Reasoning Course at CMU*. Presented at the Brown Bag Lunch for the College of Science and Technology, Mount Pleasant, MI.
- **Piatek-Jimenez, K.** (September 2008). Quantitative Literacy and its Implementation at CMU. Presented to the Board of Trustees of Central Michigan University, Central Michigan University.
- **Piatek-Jimenez, K.** (November 2005). Images of Mathematicians: A new perspective on the gender gap in mathematics participation. Presented at the Mathematics Department Colloquium, Mathematics Department, Central Michigan University.
- Miles, T., Lee, C. & **Piatek-Jimenez, K.** (February 2005) *Quantitative Literacy*. Presented at the Brown Bag Lunch for the College of Science and Technology, Mount Pleasant, MI.
- **Piatek-Jimenez, K.** (April 2003). *Gender Equity Issues in Education*. Presented at the Mathematics Instruction Colloquium, Mathematics Department, University of Arizona.
- Horak, V. & **Piatek-Jimenez, K.** (March - April 2003). *Examining Students' Understanding of Mathematics*. Presented at the Undergraduate Research Seminar, Mathematics Department, University of Arizona.
- **Piatek-Jimenez, K.** (March 2003). *Beginning Proof-Writing Students' Beliefs and Misconceptions about Mathematical Proof*. Presented at the Mathematics Graduate Colloquium, Department of Mathematics, University of Arizona.
- **Jimenez, K.** & Melendez-Morales, J. (February 2002). *Misconceptions and Validation of Proof amongst College Students: A Literature Review*. Presented at the Mathematics Education Research Colloquium, Mathematics Department, University of Arizona.
- Christian-Smith, J. & **Jimenez, K.** (March 2001). High School Mathematics Workshop Series. Radio show interview with Dr. Pat Kenschaft, host of radio show *Math Medley* and Professor of Mathematics.

## VI. GRANT AND CONTRACTS

### External Grants

- Understanding the Barriers to Institutional Success for Women in STEM at Central Michigan University, ADVANCE Catalyst grant. National Science Foundation (NSF), PI – A.T. Miller, **Co-PI Katrina Piatek-Jimenez**, Co-PI Frim Ampaw, Co-PI Tracy Galarowicz, Co-PI Lisa Gandy, Funded September 2019 – August 2021 for \$295, 170.

### Internal Grants (Central Michigan University)

- Faculty Research and Creative Endeavors Research Grant A. The Office of Research and Sponsored Programs, Funded in January 2011 for \$2400.
- Faculty 2010 Grants for Spanish Language Improvement. The Office of International Affairs, Funded in March 2010 for \$2615.
- Faculty Research and Creative Endeavors Premier Display for presentation in Atlanta, GA. The Office of Research and Sponsored Programs, Funded in October 2009 for \$500.



- Faculty Development Funds for presentation in Atlanta, GA. The College of Science and Technology, Funded in October 2009 for \$400.
- Faculty Research and Creative Endeavors Premier Display for presentation in Merida, Yucatan, MX. The Office of Research and Sponsored Programs, Funded in February 2007 for \$1000.
- President's Research Investment Fund, The Office of Research and Sponsored Programs, Funded in May 2006 for \$23,211, Project title: *Influences on Career Choice: A study of women mathematics students*.
- Faculty Research and Creative Endeavors Premier Display for presentation in Roanoke, VA. The Office of Research and Sponsored Programs, Funded in December 2005 for \$868.
- Faculty Research and Creative Endeavors Premier Display for presentation in Phoenix, AZ. The Office of Research and Sponsored Programs, Funded in April 2005 for \$799.
- Professional Growth Fund for presentation in Atlanta, GA, Faculty Center for Innovative Teaching, Funded in March 2005 for \$400.

## **VII. ACTIVITIES FOR MAINTAINING AND ENHANSING PROFESSIONAL ABILITIES**

### **Select Conferences/Workshops Attended**

- Psychology of Mathematics Education (PME) Conference. Attended in July 2003, October 2004, October 2005, November 2006, October 2007, September 2009, October 2011, November 2012, November 2013, November 2015, November 2016, October 2017, November 2018, November 2019.
- MAA/MichMATYC Spring Meeting, Attended in May 2009, May 2014, April 2017.
- American Educational Research Association (AERA) Conference. Attended in April 2003, April 2004, April 2015.
- Conversations among Colleagues (CaC) Conference. Attended in March 2005, February 2011, March 2013, March 2015.
- Conference on Research in Undergraduate Mathematics Education (RUME). Attended in February 2004, February 2005, February 2006, February 2008.
- Math in Action Conference. Attended in February 2011, February 2012.
- Quantifying Quantitative Reasoning in Undergraduate Education: Alternative Strategies for the Assessment of Quantitative Reasoning (The QuIRK Initiative & Project Kaleidoscope). Attended in October 2008.
- Phi Eta Sigma National Convention and Leadership Workshop. Attended in October 2008.
- LURE Kick-off Conference on Undergraduate Research. Attended in March 2007.
- Mathfest, the annual meeting of the MAA. Attended in August 2004, August 2005.
- Joint Mathematics Meetings. Attended in January 2004, January 2005.
- Project NExT Workshop. Attended in August 2004, January 2005, August 2005.
- Legacy of R. L. Moore Conference. Attended in April 2005.
- Michigan Undergraduate Mathematics Conference. Attended in September 2004.
- Lilly North Conference. Attended in September 2004.

- Mathematics Education and Mathematics in the 21st Century: The Roles of Outreach, Teacher Preparation, and Research on Teaching & Learning in Research I Mathematics Departments. Attended in February, 2003.
- National Council of Teachers of Mathematics (NCTM) Research Pre-Session. Attended in April 2002.

### **Participation in Short Courses**

- Talking Across Differences (6 sessions), offered through Central Michigan University, Mount Pleasant, MI, September-October, 2018.
- CRLT Players, offered through Central Michigan University, Mount Pleasant, MI, November 2009.
- Ouch! That Stereotype Hurts, offered through Central Michigan University, Mount Pleasant, MI, May 2008.
- Synergy from Others, offered through Central Michigan University, Mount Pleasant, MI, Summer 2007.
- Proposal Writing Workshop, offered through Central Michigan University, Mount Pleasant, MI, May 2006.
- Teaching Math Courses for Teachers, offered through Project NExT, Albuquerque, NM, August 2005.
- Identifying Funding for your Project, offered through the Office of Research and Sponsored Programs, CMU, November 2004.
- Internal Funding Opportunities, offered through the Office of Research and Sponsored Programs, CMU, September 2004.
- Blackboard workshop, offered through FaCIT, CMU, August 2004.
- Preparing to Teach Mathematics for Prospective Teachers, offered through Project NExT, Providence, RI, August 2004.

### **Participation in College and Departmental Colloquia**

- Mathematics Education Seminar, Mathematics Department, Central Michigan University, Fall 2005.
- Learning Theories Reading Group, Mathematics Department, Central Michigan University, Spring 2005.
- Brown Bag Seminar, College of Science and Technology, Central Michigan University, Fall 2004 and Spring 2005.

### **Membership in Professional Organizations**

- Project NExT
- National Council of Teachers of Mathematics
- North American Group for the Psychology of Mathematics Education
- Mathematical Association of America
- Association for Women in Mathematics

## VIII. UNIVERSITY AND PROFESSIONAL SERVICE

### Departmental Committees at Central Michigan University

- Committee on Graduate Program Data (Fall 2019 – present)
- Elementary Education Revision Committee **Chair** (Fall 2019 – present)
- Graduate Committee. (Fall 2005 - Spring 2007, Fall 2009 – Fall 2010, Fall 2018 – present).
- Bylaws Committee (Fall 2019 – present, Fall 2014 – Spring 2016)
- Bylaws Committee **Chair** (Fall 2014 – Spring 2016)
- Scholarship Committee. (Spring 2015, Spring 2019).
- Mathematics Education Qualifying Exam Committee. (Fall 2013, Fall 2014, Fall 2018).
- Chair Review Committee. (Spring 2010, Spring 2015).
- Ad-hoc Committee to review the Mathematics Education Elementary Curriculum. (Fall 2012 – present).
- Personnel Committee. (Fall 2010).
- Ad-hoc Committee for hiring a new OP4. (Summer 2010).
- Graduate Student Recruitment Event Ad-hoc Committee **Chair**. (Spring 2010).
- Mathematics Department **Graduate Coordinator** and **Chair** of the Mathematics Department Graduate Committee. (Fall 2009 – Fall 2010).
- Mathematics Department Executive Council. (Fall 2009 – Fall 2010).
- Quantitative Literacy Committee **Chair**. (Fall 2007 – Spring 2009 and Fall 2013 – present).
- By-laws Committee. (Fall 2007 – Spring 2008).
- Quantitative Literacy Committee. (Spring 2005 – present).
- Mathematics Competency Exam Ad-hoc Committee. (Spring 2005).

### Departmental Committees at the University of Arizona

- Undergraduate Committee. (2002 - 2004). Mathematics Department.
- Algebra Skills Discussion Group Committee. (2003 - 2004). Mathematics Department.

### College and University Committees at Central Michigan University

- **Chair elect** of the Academic Senate. (Spring 2019)
- Executive Board for the Academic Senate. (Spring 2008 – Fall 2008, Spring 2019 – present).
- Academic Senate. (Fall 2006 – Spring 2012, Fall 2013 – present).
- Elementary Banding Taskforce (Spring 2019 – present)
- Women and Gender Studies Council. (Fall 2015 – present).
- Curriculum Committee for Women and Gender Studies. (Fall 2018 – present).
- General Education Committee. (Fall 2017).
- Drafting Committee for the Academic Senate. (Fall 2008 – Spring 2009).

- CST Residential College Advisory Board. (Fall 2005 – Spring 2006). College of Science and Technology Committee.

### Conferences Chaired

- Conversations among Colleagues (CaC) Conference. Held at Central Michigan University, March 23, 2013. **Co-chaired** with Dr. Ana Dias.

### Mentoring/Advising Students

- Dissertation advisor for David Varner, current.
- Plan B advisor for Bridgette Russell, Spring 2020.
- Teaching Intern Supervisor for Brian Church on teaching MTH 175, Spring 2020.
- Teaching Intern Supervisor for David Varner on teaching MTH 332, Fall 2019.
- Dissertation committee member for Jordan Gill, defended Fall 2019.
- Dissertation committee member for Robert Chamblin, defended Summer 2018.
- Dissertation advisor for Olaseni Fadipe, defended Fall 2017.
- Honors Project advisor for Miranda Nouhan, Fall 2017.
- Honors Project advisor for Michaela Williams, Fall 2017.
- Plan B advisor for Earle Crosswait, Spring 2013.
- Plan B advisor for Katherine Soller, Summer/Fall 2008.
- Teaching Intern Supervisor for Wesley Rich on teaching MTH 332, Spring 2008.
- Honors Project Advisor for Amanda Smith, Spring 2008.
- Honors Project Advisor for Sarah Kieft (in conjunction with Donna Ericksen). Spring 2008.
- Plan B advisor for Mahan Seifi. Fall 2006.
- Plan B advisor for Dharma Shetty. Spring 2006.
- Honors Contract Advisor for Elise Waun on MTH 332. Spring 2005.
- Evaluating transcripts for transfer credit for students wanting Secondary Mathematics Teaching Certificates. Fall 2005 – Fall 2010.
- Advising and signing minors in secondary mathematics education. Spring 2005 – present.
- Academic advisor for graduate students. Fall 2006 – present.
- Faculty Advisor for Fellowship of Lutherans on Campus. Fall 2007 – Fall 2009.
- Faculty Advisor for Phi Eta Sigma Honor Society. Spring 2007 – Spring 2010.
- Advised incoming freshmen at Leadership Safari's "Pizza with Professors/Professionals". Fall 2009, Fall 2010.
- Advised and recruited prospective students at "CMU and You Day". Fall 2006.
- Attended monthly Residential College Advisory Board Dinners with students in Woldt Hall dining commons. Fall 2005- Spring 2006.
- Advised students in the CST Residential College at Residential College Advising Night. October, 2005.
- Assisting with Graduate Assistant training. August 2005 – August 2009.
- Written letters of recommendation for dozens of undergraduate and graduate students applying for scholarships, graduate school, or jobs.

## Presenting Workshops

- Presented a workshop at CMU's 2<sup>nd</sup> Annual Diversity and Inclusion Symposium. (April 2017). Central Michigan University. *Our session title was "Intersections of Identity: Navigating the Complexities", Presented with Dr. JoEllen DeLucia and Dr. Alexandra Ulana Klymyshyn. Invited talk.*
- Presented Graduate Assistant Teaching Workshop. (August 2007, 2008, and 2009). Mathematics Department, Central Michigan University. *This is a two-week workshop that I developed and teach for the new graduate assistants in the department to help them prepare to teach college level mathematics.*
- Presented Math Module at STEPS Camp. (July 2006). Central Michigan University. *Science Technology & Engineering Preview Summer (STEPS) Camp is a one-week introduction to science, technology, and engineering for middle school girls.*
- Co-created a Learning Theories Reading Group in Mathematics Department. (Spring 2005). Central Michigan University.
- Coordinator of the High School Mathematics Workshop Series. (2001-2003). Mathematics Department, University of Arizona. *These workshops are organized and run completely by graduate students for high school students. The purpose of these workshops is to teach high school students mathematics topics not traditionally taught in high school and to excite them about mathematics. Workshop topics included Knot Theory, Cryptography, Graph Theory, and Elasticity Theory.*
- Graduate Student Participant in the High School Mathematics Workshop Series. (2000-2003). Mathematics Department, University of Arizona.
- Presenter at MESA Day In-Service Workshop. (2002, Fall). *Mathematics, Engineering, Science Achievement (MESA) is an early outreach program in Arizona to encourage minority students to attend college and to consider earning a degree in a technical major. During an in-service day at the University of Arizona, I presented a mathematics project to high school teachers for them to use with their MESA students.*

## Other Professional Service

- Serve as a consultant for the College Board on the SAT exam, Fall 2015 – present.
- Reviewed papers or book chapters for:
  - Journal of Humanistic Mathematics
  - International Perspectives on Gender and Mathematics Education
  - ZDM – The International Journal on Mathematics Education
  - Mathematics Teacher
  - PRIMUS
  - Mathematics Education Research Journal (MERJ)
  - PME-NA (North American Chapter of the International Group for the Psychology of Mathematics Education conference)
  - RUME (Research in Undergraduate Mathematics Education conference)
- Reviewed *Roads to Geometry* textbook for Pearson/Prentice Hall, July 2007.

- Traveled to four universities in California to recruit graduate students to CMU's doctoral program in mathematics, March 2007.
- AP Calculus reader in Fort Collins, CO, June 2006 and June 2008.

## IX. HONORS, AWARDS, AND DISTINCTIONS

- Member of the Honors Faculty at Central Michigan University as of Spring 2008.
- Member of the Professional Education Faculty at Central Michigan University as of Fall 2005.
- Member of the Graduate Faculty at Central Michigan University as of Fall 2005.
- Selected as a 2004-2005 participant in a New-Faculty Learning Community. (2004). FACIT program, Central Michigan University. *The program was designed to be an interdisciplinary network for new faculty at Central Michigan University.*
- Selected as a 2004-2005 Project NExT Fellow. (2004). *Project NExT (New Experiences in Teaching) is a national program for new or recent Ph.D.s in the mathematical sciences. It addresses all aspects of an academic career: improving the teaching and learning of mathematics, engaging in research and scholarship, and participating in professional activities. It also provides the participants with a network of peers and mentors.*
- Lawrence Wilson Phi Beta Kappa Honor Key Award. (1999). University of California at Santa Barbara. *Awarded to the initiate and Regents Scholar who is judged as best representing the ideals of Phi Beta Kappa.*
- Daniel G. Aldrich Jr. Outstanding Senior Award. (1999). University of California at Santa Barbara. *Awarded to a graduating senior in the College of Letters and Science for outstanding scholarship and contributions to the campus community.*
- Mochizuki Memorial Scholarship for Mathematics. (1999). Mathematics Department, University of California at Santa Barbara. *Awarded for outstanding academic achievement in mathematics, as selected by the faculty.*