

DIANNE M. TWIGGER
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EDUCATION

Missouri State University, Springfield, Missouri
M.S. in Mathematics **August 2008**
Thesis: "Rings of Invariants of Finite Groups"

Evangel University, Springfield, Missouri
B.S. in Mathematics Education, Magna Cum Laude **July 2006**
Minor: Social Sciences

ACADEMIC EXPERIENCE

Evangel University, Springfield, Missouri
Assistant Professor, Department of Natural and Applied Sciences **2013 - Present**
Teach undergraduate mathematics and mathematics education courses. Develop syllabus and overall course structure, and administer all grades Advise undergraduate mathematics and secondary mathematics education majors.

Missouri State University, Springfield, Missouri
Mathematics Graduate Assistant Supervisor **2011 - 2013**
Supervise graduate students that teach intermediate algebra courses in the department. Construct teaching schedules for each semester. Schedule and perform all trainings, create all lecture materials and assessments, as well as observe graduate assistants in the classroom.

Missouri State University, Springfield, Missouri
Mathematics Instructor **2008 - 2013**
Developed syllabus and overall course structure, and administered all grades for classes ranging from developmental mathematics to college algebra.

Evangel University, Springfield, Missouri
Adjunct Instructor – Intermediate Algebra **2007**
Developed syllabus and overall course structure, and administered all grades.

Missouri State University, Springfield, Missouri
Graduate/Teaching Assistant – Intermediate Algebra I and Intermediate Algebra II **2006 - 2008**
Taught one or two courses per semester, collaborated with fellow assistants on exam development, and administered all grades.

Graduate/Teaching Assistant – Tutoring lab assistant **2006 - 2007**
Worked in the university sponsored tutoring lab with students having a variety of needs on subjects up through Calculus II.

PUBLICATIONS AND PAPERS

“Rings of Invariants of Finite Groups”

A thesis in partial fulfillment of the requirements for a Master of Science degree in Mathematics.

August 2008

“Su-Doku for Dummies: A Mathematician’s Approach”

Guest speaker at the 2005 MAKO Conference in Springfield, Missouri and the 2006 North Central Regional Conference of Kappa Mu Epsilon at the University of Northern Iowa. Published in The Pentagon.

Fall 2007

PRESENTATIONS

Faculty Seminar: Open Source Textbooks; Evangel University, August 13, 2018.

Joint Presentation with Jonathan LeCureux on the use of open source textbooks and their benefits for Evangel University Students.

Faculty Showcase on Teaching and Learning: Intermediate and College Algebra Course Redesigns: An Update; Missouri State University, August 14, 2013.

Campus wide joint presentation with Pamela Henson and Patti Blanton, on the outcome of an internal grant for redesigning intermediate and college algebra courses at Missouri State University.

CNAS Seminar Series: Course Transformation in Mathematics; Missouri State University, September 7, 2012.

Joint Presentation with Patti Blanton and Pamela Henson regarding the course redesign projects underway in the math department supported by an internal grant.

Faculty Showcase on Teaching and Learning: Course Transformation and Redesign; Missouri State University, January 5, 2011.

Campus wide joint presentation with Eric Nelson regarding benefits of course transformation in the university setting.

GRANTS

“Research and Development for the Redesign of the General Education College Algebra Course”

Principal Investigators: Dianne Twigger, Pamela Henson, Patti Blanton.

Missouri State University Award: \$12,000.

AWARDS

2018 Orville and Jewel Mills Young Faculty Award for Teaching, Scholarship, and Service

COMMITTEE WORK

Curriculum Committee, 2015 – present

Served as recorder 2016 – 2017

Professional Development Committee, 2015 – present

Graduate and Adult Studies Council 2017 – present

Academic Council 2018 – Present

The following are committees that I served on while at Missouri State University:

- Math Contests Committee
- Department Head Search Committee
- Course Transformation Committee (chair)
- JumpSTART Program
- Dual Credit Committee

PROFESSIONAL MEMBERSHIPS

- Kappa Mu Epsilon, National Mathematics Honors Society
- Mathematical Association of America
- American Scientific Affiliation
- Christian Women in Science

CONFERENCES ATTENDED

Kappa Mu Epsilon 42nd Biennial Convention at Frostburg State University April 11-13, 2019.

Traveled with four students, including one presenter, to the national KME convention at Frostburg State University.

MAKO (Missouri Arkansas Kansas Oklahoma) Undergraduate Research Conferences 2005-2007, 2013-2017.

Presented at the 2005 conference, and assisted with conferences in 2006, 2007, 2016, 2017, and 2018. Traveled with students to conferences from 2013 to 2018.

Kappa Mu Epsilon 41st Biennial Convention at Evangel University, April 6-8, 2017.

Hosted the national convention on the Evangel campus, with 14 of our own students attending the conference.

North Central Regional Kappa Mu Epsilon Conference April 1-2, 2016.

Traveled with students to the regional convention at the University of Nebraska – Kearney. Supervised two students who presented research at the conference.

Lilly Conference: Evidence Based Teaching and Learning January 7-9, 2016.

Traveled with colleagues to focus on best teaching practices and current trends in higher education.

Kappa Mu Epsilon 40th Biennial Convention/Central Florida Undergraduate Mathematics Conference April 9-11, 2015.

Traveled with students to the national convention at Embry-Riddle Aeronautical University.

NCAT Redesign Workshop: Increasing Student Success in Developmental and College-Level Math; Orlando, Florida, February 6-7, 2011.

Sharing of redesign approaches and networking with schools undergoing NCAT redesign initiatives.

Developmental Math Symposium; Laguna Beach, California, February 18-21, 2010.

Attended sessions with teachers across the country to address current trends in developmental math, technology in developmental math, and best practices. Reviewed sections in upcoming editions of textbooks with the authors.

Student Success Event Using ALEKS; Kansas City, Missouri; March 6, 2009.

Attended conference to learn how using the ALEKS system can increase student success for classes ranging from Elementary Algebra through Pre-Calculus.

Commutative Algebra: Connections with Algebraic Topology and Representation Theory; Lincoln, Nebraska, May 18-22, 2008

Attended conference to explore current research topics in Commutative Algebra, Algebraic Topology, and Representation Theory.

Macaulay 2 Conference; Ithaca, New York, March 16-19, 2008.

Attended conference to learn how to use Macaulay 2 in connection with my thesis. Listened to various speakers on current topics in the Commutative Algebra field.