

Molly H. Fisher, Ph.D.

Curriculum Vita: September 2009

Assistant Professor
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Education

Ph.D. (August, 2009). University of North Carolina at Charlotte, Charlotte, NC. Curriculum and Instruction, Mathematics Education

Dissertation Research: Should I Stay or Should I Go? Stress, Coping, and Retention Among Novice Teachers

M.A. (August, 2005). University of North Carolina at Charlotte, Charlotte, NC. Mathematics Education.

B.A. (May, 2000). University of North Carolina at Charlotte, Charlotte, NC. Mathematics.

Licensures and Certifications

Advanced Placement Certified

NC "M" level teaching license: 9-12 Mathematics

NC "A" level teaching license: 9-12 Mathematics

Blackboard Certified

University Teaching Experience

2009 – present: **Assistant Professor**, College of Education, University of Kentucky, Lexington, KY

- Member of Secondary Mathematics and Science program faculty

- Member of Elementary Education program faculty
- Teach mathematics education courses in the Teaching and Learning Studio model (UKTLS)
- Develop and present seminars for undergraduate students in UKTLS based on theory and research, technology, and cross curricular integration
- Instructed each of the following courses at least once:
 - EDC 337: Teaching Mathematics in the Elementary School

2006 – 2009: **Lecturer**, Department of Mathematics and Statistics, University of North Carolina at Charlotte, Charlotte, NC.

- Served as the Teacher-In-Residence for 2006-2008
- Taught Mathematics and Mathematics Education courses
- Worked with the Business Learning Community teaching Mathematics courses per the request of the students and College of Business leaders.
- Supervised undergraduate Mathematics students who graded and tutored for my courses.
- Instructed each of the following courses at least once:
 - MATH 1100: College Algebra
 - MATH 1103: Pre-Calculus
 - MATH 1120: Business Calculus
 - MATH 1241: Calculus I
 - MAED 3222: Teaching Mathematics in Grades K-2
 - MAED 3224: Teaching Mathematics in Grades 3-6
 - MAED 3103: Using Technology to Teach Secondary Level Mathematics

K-12 Teaching and Administrative Experience

2008 – Present: **Mathematics Department Chair**, North Carolina Virtual Public School.

- Coordinate teams of mathematics teachers to revise and teach online courses
- Maintain strict communication with department members through email, telephone, Pronto, and Wimba Classroom
- Lead synchronous and asynchronous department meetings with all Mathematics teachers
- Participate in weekly meetings with other Department Chairs to discuss Curriculum and Instruction needs
- Collaborate with Division Directors and the Chief Academic Office on strategies to enhance virtual education

2008 – Present: **Mathematics Teacher**, North Carolina Virtual Public School.

- Completed Blackboard certification and pedagogy courses through LearnNC
- Attend webinars, online meetings, and conference calls

- Engage in faculty discussions through email and discussion forums
- Participate in online professional development courses as needed
- Implement Web 2.0 tools in my classes
- Participate in virtual open houses to showcase courses
- Instructed each of the following courses at least once:
 - Algebra I
 - Geometry
 - Advanced Functions and Modeling
 - SAT Prep

2005 – 2006: **Mathematics Teacher**, Lake Norman High School, Mooresville, NC.

- Served as a member of Gifted Instructional Support Team
- Mentored a caseload of Academically Gifted Students
- Conducted research to analyze block scheduling alternatives with scheduling committee
- Implemented “Baldrige Criteria for Performance Excellence” into daily classroom activities
- Instructed each of the following courses at least once:
 - Algebra I
 - Academic Geometry
 - Honors Geometry

2000 – 2005: **Mathematics Teacher**, David W. Butler High School, Matthews, NC.

- Served on School Leadership Team
- Acted as sole advisor for school-wide Student Council
- Mentored Senior students with Senior Exit Projects
- Worked as a group leader for Senior Exit Project presentations
- Reported meeting minutes and focus group results to administration as chair of Faculty Advisory Council
- Led weekly Geometry teacher meetings and mentored new Geometry teachers as lead teacher in that subject
- Instructed each of the following courses at least once:
 - Algebra I
 - Academic Geometry
 - Geometry Remediation
 - Pre-Calculus
 - Advanced Placement Computer Science in C++
 - Advanced Placement Computer Science in Java
 - Integrated Math III
 - Student Leadership

Other Professional Experience

2007 – present: **Mathematics Curriculum Reviser and Course Developer**, North Carolina Virtual Public School.

- Sole reviser of the Algebra I course in 2007
- Served on revision teams for Algebra I and Geometry under newly developed team guidelines
- Algebra I team leader for revision cycles in 2008
- Work strictly with the Mathematics Curriculum Specialist to revise online curriculum in order to enhance technology and improve student learning
- Compared online courses with NC Standard Course of Study to ensure all standards are being met
- Ensure Web 2.0 strategies are being included in course creations and revisions
- Worked on a three-person team to develop an Advanced Placement Statistics course in 2009

2007 – 2008: **Advanced Placement Summer Institute Coordinator**, University of North Carolina at Charlotte, Charlotte, NC.

- Coordinated Advanced Placement workshops for over four hundred teachers under the direction of the Director of the Center for Mathematics, Science, and Technology Education
- Created and maintained detailed participant database
- Sustained continuous communication with participants through email, telephone, and letters
- Communicated with Advanced Placement consultants to organize course supplies and requests in order to maximize teacher experiences
- Scheduled field trips, lab schedules, and computer times for participants
- Served as a liaison for Catering Services to organize meals, housing, and facilities for the institutes

2007 – 2009: **Graduate Assistant for Building SPEED: Science Participation: Education, Engagement, and Diversity**, University of North Carolina at Charlotte, Charlotte, NC.

- NSF Grant (PHY-0839180) that enhances High School curriculum by modeling the Math and Science of NASCAR
- Travel to NASCAR race locations and assist in leading workshops for the local Math and Science Teachers
- Coordinate registration for participants attending
- Communicate with local companies to obtain corporate sponsorships of workshop items such as tickets to racing events and other promotional items
- Assist the Principal Investigators in enhancing the lab modules to incorporate mathematical ideas within scientific experiments
- Collaborated with a Principal Investigator to write mathematics workshop modules to incorporate NASCAR in mathematics classrooms.

2003 – 2005: **Advanced Placement Computer Science system-wide liaison**, Charlotte Mecklenburg Schools, Charlotte, NC.

- Mentored new AP Computer Science teachers in the district containing seventeen high schools
- Attended National Advanced Placement Conference (July 2004)
- Led system-wide workshops for AP Computer Science teachers
- Assisted in creating the system-wide pacing guide for all AP Computer Science teachers
- Began school-wide Advanced Placement Computer Science program for Butler High School.

Awards and Recognitions

- Recipient of North Carolina Council of Teachers of Mathematics Trust Fund Graduate Scholarship for Educators, 2004
- Successfully completed the Performance Based Licensure Portfolio for second year teachers in North Carolina, 2002
- North Carolina Prospective Teachers Undergraduate Scholarship Recipient, 1996-2000
- Goude Educational Undergraduate Scholarship recipient for Mathematics Education majors, 1998-1999, 1999-2000
- Member of Kappa Delta Pi National Honor Society for Educators, 1998-2000, 2007-present

Professional Associations

- National Council of Teachers of Mathematics
- North Carolina Council of Teachers of Mathematics
- Kentucky Council of Teachers of Mathematics
- Lexington Council of Teachers of Mathematics
- Kappa Delta Pi

Refereed Publications

Chae, J.L., Lim, J.H., and Fisher, M.H. (2009). Teaching Mathematics at the College Level: International TA's Transitional Experiences. *PRIMUS* (19), 3, pp. 245-259.

Proceedings

Fisher, M.H. (2007). Retaining Beginning Mathematics Teachers in the United States. In D. Pugalee, A. Rogerson, and A. Schinck (Eds.), *Mathematics Education into the 21st Century Project: Vol. 9.* (pp. 194-198).

International Presentations

Fisher, M.H. (2007). Retaining Beginning Mathematics Teachers in the United States. *Mathematics Education for the 21st Century Conference.* Charlotte, NC.

Invited Conference Presentations and Workshops:

Fisher, M.H. (2004). Advanced Placement Computer Science National Conference Review. Charlotte, NC: Charlotte-Mecklenburg Schools. (conference presentation)

Fisher, M.H. (2003). Advanced Placement Computer Science Textbook Workshop. Charlotte, NC: Charlotte-Mecklenburg Schools. (workshop presentation)

National Presentations

Chae, J.L., & Fisher, M.H. (March 2008). Teaching Mathematics at the College Level: International TA's Transitional Experiences. Poster presented at the American Educational Research Association, New York, NY.

Service

- Judge and grader for "Panthers Number Crunch" high school mathematics competition, 2007, 2008
- Assisted in the North Carolina Regional Science Olympiad by scoring and managing two events, 2008, 2009
- Read exam for 2008 Korean Math Competition held at UNC Charlotte to offer grammatical changes
- Invited to attend the National Advanced Placement Conference as mathematics representative from Charlotte-Mecklenburg Schools, 2004
- Attended "Achieving Curriculum Diversity" summer workshop for faculty, 2007
- Served as reader for the MATH 1100 common final, Spring 2007
- Member of Curriculum and Instruction Graduate Student Professional Association, 2006-2009

- Treasurer of Curriculum and Instruction Graduate Student Professional Association, 2006-2007
- President of Curriculum and Instruction Graduate Student Professional Association, 2007-2008
- Table leader and discussion leader for “Pursing the Dream” diversity conference, February 2008
- Member of College of Education Social Welfare Committee, 2009-present