

Curriculum Vita

Angela M. Brown

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EDUCATION

Ph.D. (May 2012) in Mathematics at University of Texas at Arlington.

Areas of Study: Finite Geometries, Non-Associative Algebras

Dissertation title: "New Results in Finite Geometries Pertaining to Albert-like Semifields"

Dissertation Advisor: Dr. Minerva Cordero

M.S. (August 2006) in Mathematics at Sam Houston State University.

Thesis title: "A Partial Classification of Mathematically Celtic Knots"

Thesis Advisor: Dr. Jacqueline Jensen

B.S. (December 2003) in Mathematics, minor in Secondary Education at Sam Houston State University. Passed Mathematics Certification Exam for Grades 6-12 in 2003, passed Pedagogy and Professional Responsibility Exam for Grades 8-12 in 2003.

A.S. (May 2000) in Mathematics/Physics/Pre-Engineering, Lee College, Baytown, TX.

ACADEMIC EMPLOYMENT

1. Assistant Professor, Sul Ross State University August 2012-Present.
2. Lecturer, University of Texas at Arlington, June 2012-July 2012.
3. Graduate Teaching Assistant, Department of Mathematics, University of Texas at Arlington, Arlington, TX, June 2011-May 2012.
4. NSF GK-12 MAVS Grant Fellow, Department of Mathematics, University of Texas at Arlington, Arlington, TX, July 2009 -May 2011. Responsibilities include:
5. Graduate Teaching Assistant, Department of Mathematics, University of Texas at Arlington, Arlington, TX, August 2006-August 2009.
6. Graduate Teaching Assistant, Department of Mathematics, Sam Houston State University, Huntsville, TX, January 2004-August 2006.

COURSES TAUGHT

1. Currently: University Algebra
Calculus I
Real Analysis
2. Summer 2012: Concepts and Techniques in Geometry (graduate level)
3. Summer 2011-Spring 2012: Trigonometry
4. Summer 2009 Calculus I
5. Fall 2006-Spring 2009 College Algebra

6. Fall 2005-Spring 2006 Math for Liberal Arts

7. Spring 2004 Developmental Mathematics II

PRESENTATIONS AT PROFESSIONAL MEETINGS

1. Brown, A.M., Some New Results in Finite Geometries, Joint Mathematics Meeting, January 6, 2012, Boston, MA.
2. Brown, A.M., Helixon, K., Bringing Finite Geometries to a Double Block Algebra/Geometry Class, Conference for the Advancement of Mathematics Teaching (CAMT), July 19, 2011, Grapevine, TX.
3. Brown, A.M., Automorphisms on Albert-Like Semifield Planes, Texas Section Meeting of the Mathematical Association of America, April 15, 2011, Tyler, TX.
4. Brown, A.M., Cordero, M., Epperson, J., Helixon, K., Jorgensen, T., Randell, K., Veerapen, P., Facilitating the Integration of Research Level Mathematics into the Classroom , Graduate STEM Fellows in K-12 Education Annual Conference, March 12, 2011, Washington, D.C.
5. Brown, A.M., Some New Results in Finite Geometries and How to Connect Them to K-12 Mathematics, Graduate STEM Fellows in K-12 Education Annual Conference, March 11, 2011, Washington, D.C. (NSF Poster Presentation)
6. Brown, A.M., New Results in Finite Geometries and How to Connect Them to K-12 Mathematics, Southwest Local Algebra Meeting, March 5, 2011, Las Cruces, NM. (Poster Presentation)
7. Brown, A.M., Automorphisms on Albert-like Semifield Planes, Joint Mathematics Meeting, January 7, 2011, New Orleans, LA.
8. Brown, A.M., Randell, K., Creating Art In The Junior High Math Classroom Using Finite Number Systems, Conference for the Advancement of Mathematics Teaching, July 15, 2010, San Antonio, TX.
9. Brown, A.M. A Further Generalization of Alberts Generalized Twisted Fields. Texas Section Meeting of the Mathematical Association of America, April 9, 2010, Denton, TX.
10. Brown, A.M. MAVS GK-12 Project: Finite Geometries. Joint Mathematics Meeting, San Francisco, CA January 2010. (Poster Presentation)
11. Brown, A.M. Introducing Finite Geometries and Semifields to 7th Grade Students. Southwest Regional National Science Foundation (NSF) GK-12 Conference, November 14, 2009, Fort Worth, TX.
12. Brown, A.M. An Introduction to Finite Geometries and Semifields. Texas Undergraduate Mathematics Conference, November 8, 2009, Huntsville, TX.
13. Brown, A.M. A Short Introduction to Knot Theory and How it Applies to Celtic Knots. Texas Undergraduate Mathematics Conference, Huntsville, TX, October 21, 2006.
14. Brown, A.M. and J.A. Jensen. A Partial Classification of Mathematically Celtic Knots. Math Fest 2006, Knoxville, TN August, 2006. (Poster Presentation)
15. Brown, A.M. and J.A. Jensen. A Partial Classification of Mathematically Celtic Knots. Meeting of the Texas Section of the MAA, Wichita Falls, TX, April, 2006.
16. Brown, A.M. and J.A. Jensen. Which Mathematical Knots are Celtic? Math Fest 2005, Albuquerque, NM, August, 2005.

17. Brown, A.M. and J.A. Jensen. What Determines a Celtic Knot? Meeting of the Texas Section of the MAA, Arlington, TX, April, 2005.
18. Brown, A.M. and J.A. Jensen. Can Celtic Knots Be Classified? Joint Mathematics Meetings, Atlanta, GA, January, 2005.
19. Brown, A.M. and J.A. Jensen. Knot Your Usual Talk About Celtic Art. MathFest 2004, Providence, RI, August, 2004.
20. Brown, A.M. and J.A. Jensen. Knot Theory: An Overview. Meeting of the Texas Section of the MAA, Corpus Christi, TX, April, 2004.
21. Brown, A.M. and J.A. Jensen. An Overview of Molecular and Crystallographic Symmetries. MathFest 2003, Boulder, CO, August, 2003.
22. Brown, A.M. and J.A. Jensen. Symmetry Groups of Molecular Structures. Meeting of the Texas Section of the MAA, Huntsville TX, April, 2003.

OTHER PRESENTATIONS

1. Invited Panelist, "What is Life in Graduate School Really like?" Texas Undergraduate Mathematics Conference, Tyler, TX, October 22, 2011.
2. Brown, A.M., Some New Results in Finite Geometries, Annual Celebration of Excellence by Students, March 24, 2011, Arlington, TX.
This was an accepted talk for the general sessions of the ACES conference
3. Brown, A.M., Some New Results in Finite Geometries, Annual Celebration of Excellence by Students, NSF GK-12 Special Session, March 23, 2011, Arlington, TX.
4. TexPREP Summer Program-PREFRESHMAN ENGINEERING PROGRAM July 26, 2010.
Gave an hour long presentation talking about grad school and the research I do. I also did an activity with them over modular arithmetic.
5. Brown, A.M. A Further Generalization of Albert's Twisted Fields. GAANN Day University of Texas at Arlington, March 26, 2010, Arlington, TX.
6. Invited Panelist, "What is Life in Graduate School REALLY like?" Texas Undergraduate Mathematics Conference, Huntsville, TX, September 27, 2008.
7. Brown, A.M. Classifying Mathematically Celtic Knots. Presentation for the Geometry and Geometric Analysis Colloquium, Texas Christian University, February 22, 2007 (Invited Speaker).
8. Brown, A.M. An Introduction to Knot Theory and How it Applies to Celtic Knots. Presentation for the MAA Student Chapter, University of Texas at Arlington, September 21, 2006.

CONFERENCE PARTICIPATION

1. MathFest, August 2012, Madison, WI.
2. Texas Section Meeting of the Mathematical Association of America, April 2012, El Centro College, Dallas, TX.
3. Joint Mathematics Meeting of the AMS/MAA, January 2012, Boston, MA.
4. Seventh Annual Texas Undergraduate Mathematics Conference, October 2011, University of Texas at Tyler, Tyler, TX.

5. MathFest, August 2011, Louisville, KY.
6. Conference for the Advancement of Mathematics Teaching, July 2011, Grapevine, TX.
7. Annual Celebration of Excellence by Students, March 2011, University of Texas at Arlington, Arlington, TX.
8. Graduate Stem Fellows in K-12 Education Annual Conference, March 2011, Washington, D.C.
9. Southwest Local Algebra Meeting, March 2011, Las Cruces, NM.
10. Joint Mathematics Meeting of the AMS/MAA, January 2011, New Orleans, LA.
11. Texas Section Meeting of the Mathematical Association of America, April 2011, University of Texas at Tyler, Tyler, TX.
12. Sixth Annual Texas Undergraduate Mathematics Conference, October 2010, University of Texas at Tyler, Tyler, TX.
13. MathFest, August 2010, Pittsburgh, PA.
14. Conference for the Advancement of Mathematics Teaching, July 2010, San Antonio, TX.
15. Texas Section Meeting of the Mathematical Association of America, April 2010, Abilene Christian University, Abilene, TX.
16. Joint Mathematics Meeting of the AMS/MAA, January 2010, San Francisco, CA.
17. Fifth Annual Texas Undergraduate Mathematics Conference, November 2009, Sam Houston State University, Huntsville, TX.
18. Section Meeting of the American Mathematical Society, October 2009, Baylor University, Waco, TX.
19. MathFest, August 2009, Portland, OR.
20. Texas Section Meeting of the Mathematical Association of America, April 2009, University of North Texas, Denton, TX.
21. An International Conference on Finite Geometry to Honor the Career of Norman L. Johnson on the Occasion of his 70th Birthday, March 2009, University of Texas-San Antonio, San Antonio, TX.
22. Fourth Annual Texas Undergraduate Mathematics Conference, September 2008, Sam Houston State University, Huntsville, TX.
23. Texas Section Meeting of the Mathematical Association of America, April 2008, Tarleton State University, Stephenville, TX.
24. Third Annual Texas Undergraduate Mathematics Conference, November 2007, Sam Houston State University, Huntsville, TX.
25. Texas Geometry and Topology Conference, October 2007, Texas A&M University, College Station, TX.
26. MathFest, August 2007, San Jose, CA.
27. Texas Section Meeting of the Mathematical Association of America, April 2007, University of Texas-Pan American, Edinburg, TX.

28. Texas Geometry and Topology Conference, March 2007, Texas Christian University, Fort Worth, TX.
29. Joint Mathematics Meeting of the AMS/MAA, January 2007, New Orleans, LA.
30. Second Annual Texas Undergraduate Mathematics Conference, October 2006, Sam Houston State University, Huntsville, TX.
31. MathFest, August 2006, Knoxville, TN.
32. Texas Section Meeting of the Mathematical Association of America, April 2006, Midwestern State University, Wichita Falls, TX.
33. Joint Mathematics Meeting of the AMS/MAA, January 2006, San Antonio, TX.
34. First Annual Texas Undergraduate Mathematics Conference, October 2005, Sam Houston State University, Huntsville, TX.
35. MathFest, August 2005, Albuquerque, NM.
36. Texas Section Meeting of the Mathematical Association of America, April 2005, University of Texas at Arlington, Arlington, TX.
37. Joint Mathematics Meeting of the AMS/MAA, January 2005, Atlanta, GA.
38. Texas Geometry and Topology Conference, October 2004, Texas A&M University, College Station, TX.
39. MathFest, August 2004, Providence, RI.
40. Texas Section Meeting of the Mathematical Association of America, April 2004, Texas A&M-Corpus Christi, Corpus Christi, TX.
41. MathFest, August 2003, Boulder, CO.
42. Texas Section Meeting of the Mathematical Association of America, April 2003, Sam Houston State University, Huntsville, TX.

ACADEMIC AWARDS

1. Graduate Teaching Award, University of Texas at Arlington, 2012.
2. NSF GK-12 Fellow, University of Texas at Arlington, 2009-2011.
3. GAANN Fellow, University of Texas at Arlington, 2008-2009.
4. Special Graduate Scholarship, Sam Houston State University, 2005-2006.
5. Alumni Association Scholarship, Sam Houston State University, Spring 2004.
6. Brewton Scholarship, Sam Houston State University, Fall 2003.
7. Pi Mu Epsilon, Sam Houston State University, Inducted 2003.
8. Top Speaker in Session for “Symmetry Groups of Molecular Structures” Meeting of the Texas Section of the MAA, Huntsville TX, April 2004.
9. Golden Key Honor Society, Sam Houston State University, Inducted 2002.
10. Phi Theta Kappa, Lee College, Baytown, TX, Inducted 1998.

11. Mr. and Mrs. W.C. Britton Scholarship, Lee College, Baytown, TX 1999-2000.
12. Full Tuition Scholarship for Top Student of Hargrave High School Attending Lee College, 1998-1999.

OUTREACH

1. Workshop Leader for the First Annual Sonia Kovalevsky Day at the University of Texas at Arlington. Ran a Workshop on the Four Color Theorem at this conference for 6-8 grade girls.
2. Co-Leader Sam Houston High School Math Club, 2010-2011. We plan the activities every two weeks and present the material to the students.
3. Riverside Mathematics Day, 2009, Helped lead a mathematics activity for groups of middle school students.
4. University of Texas at Arlington Calculus Bowl, 2007,2009-2012. Competition for area high school students, assisted with set up and running the scoreboard and took photographs.

OTHER ACTIVITIES

1. Intramural Sports Manager/Co Manager, 2006-2012, I have recruited members to play and kept track of the schedule for our department sports teams including basketball, soccer, volleyball, flag football, and softball.
2. President, Student Chapter of the Association for Women in Mathematics, University of Texas at Arlington, 2009-2010.
3. Graduate Student Liaison, Student Chapter of the Mathematical Student Association of America, University of Texas at Arlington, 2006-2007.
4. Graduate Student Liaison, Student Chapter of the Mathematical Student Association of America, Sam Houston State University, 2004-2005.
5. Treasurer, Student Chapter of the Mathematical Student Association of America, Sam Houston State University, 2002-2004.
6. Vice President, Phi Theta Kappa Alumni Association Chapter, Sam Houston State University, 2002-2003.
7. President, Phi Theta Kappa, Zeta Nu Chapter, Lee College, Fall 2000.
8. Vice-President, Phi Theta Kappa, Zeta Nu Chapter, Lee College, 1999-2000.

PROFESSIONAL MEMBERSHIPS

1. Mathematical Association of America
2. American Mathematical Society
3. Association for Women in Mathematics