

Dr. Elizabeth A. Sell

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EDUCATION

Ph.D., Mathematics, University of North Carolina, Chapel Hill, NC, May 2007

- Dissertation Title: "Universal Abelian Covers for Surface Singularities $\{z^n = f(x, y)\}$ "

M.A., Mathematics, University of North Carolina, Chapel Hill, NC, August 2003

- Thesis Title: "On a Certain Class of Generalized Laguerre Polynomials"

B.S., Mathematics, Ohio State University, Columbus, OH, June 2001

- *Summa Cum Laude*, with Honors in the Liberal Arts and Distinction in Mathematics

CURRENT POSITION

Assistant Professor, Millersville University, August 2007 - present

TEACHING AND CURRICULUM DEVELOPMENT

New course development (with Michael Wismer), MATH 205 Geometry for the Middle-level teacher, 2008-2009

Courses taught at Millersville University:

- MATH 101 College Algebra
- MATH 160 Precalculus
- MATH 161 Calculus 1
- MATH 310 Introduction to Mathematical Proof
- MATH 345 Abstract Algebra 1
- MATH 345 Individualized instruction in Abstract Algebra
- MATH 353 Survey of Geometry
- MATH 355 Transformational Geometry
- MATH 355 Individualized instruction in Transformational Geometry
- MATH 393 Number Theory
- MATH 504 Modern Algebra for Teachers
- MATH 505 Transformational Geometry for Teachers
- MATH 520 Logic and Foundations of Mathematics
- MATH 650 Topics in Geometry

PUBLICATIONS

Elizabeth A. Sell, *Some splice quotient double points*, to appear in International Journal of Mathematics.

John Cullinan, Anastassia Etropolski, Elizabeth Sell, *Jacobi polynomials and ranks of abelian varieties*, submitted 2010.

Elizabeth A. Sell, *On splice quotients of the form $\{z^n = f(x, y)\}$* , Math. Nachr. **284**(2011), no. 10, 1286-1303.

Elizabeth A. Sell, *On the topology of surface singularities $\{z^n = f(x, y)\}$, for f irreducible*, Michigan Math. J. **59**(2010), 85-118.

John Cullinan, Farshid Hajir, and Elizabeth A. Sell, *Algebraic properties of a family of Jacobi polynomials*, J. Théor. Nombres Bordx. **21**(2009), no. 1, 97-108.

Elizabeth A. Sell, *On a certain family of generalized Laguerre polynomials*, J. Number Theory **107**(2004), no. 2, 266-281.

PRESENTATIONS AND POSTERS

Joint AMS/MAA Meetings, Contributed paper session in Algebraic Geometry, New Orleans, LA, January 2011

- Title: "Some splice quotient double points"

Tetrahedral Geometry/Topology Seminar, Landisville, PA, December 2010

- Title: "All about splice-quotient singularities"

Connections for Women: Algebraic Geometry and Related Fields, Poster presentation, MSRI, January 2009

- Title: "Universal Abelian Covers for Surface Singularities $\{z^n = f(x, y)\}$ "

Joint AMS/MAA Meetings, Contributed papers in Algebraic Geometry and K-Theory, Washington, DC, January 2009

- Title: "On splice quotients of the form $\{z^n = f(x, y)\}$ "

Millersville University and Franklin & Marshall College Joint Math Colloquium, March 2008

- Title: "Newton polygons and irreducibility of polynomials"

Tetrahedral Geometry/Topology Seminar, Landisville, PA, November 2007

- Title: "Geometric and topological invariants of singularities"

Joint AMS/MAA Meetings, AWM Poster Session, New Orleans, January 2007

- Title: "Universal abelian covers of normal surface singularities of the form $\{z^n = f(x, y)\}$ "

New Trends in Singularity Theory, Informal seminar talk, Madrid, Spain, August 2006

- Title: "On universal abelian covers of certain surface singularities"

Geometry Learning Seminar, University of North Carolina, Chapel Hill, October 2005 and March 2005

- Topics: Singularities and toric varieties, respectively

AMS Southeastern Section Meeting, Poster presentation, University of North Carolina, Chapel Hill, October 2003

- Title: "On the irreducibility of generalized Laguerre polynomials"

Graduate Mathematics Association Seminar, University of North Carolina, Chapel Hill, October 2002

- Title: "Newton polygons and irreducibility of polynomials"

PREVIOUS ACADEMIC EXPERIENCE

Senior Teaching Fellow, University of North Carolina, Chapel Hill, August 2005 - May 2007

- Duties included supervising new instructors and designing and leading the math department T.A. Training Seminar for new graduate students.

Teaching Fellow, University of North Carolina, Chapel Hill, August 2002 - July 2005

Courses taught at the University of North Carolina, Chapel Hill:

- MATH 130 Precalculus
- MATH 231 Calculus 1
- MATH 233 Calculus 3
- MATH 533 Number theory
- Math department T.A. Training Seminar

Undergraduate Teaching Assistant, Ohio State University, Columbus, September 2000 - June 2001

HONORS AND AWARDS

Nominee for Educator of the Year Award, Millersville University, 2011

Released Time Grant recipient, Millersville University, Fall 2009

Travel to Present Grant recipient, Millersville University, Spring 2009

Alternate, American Association of University Women Dissertation Fellowship Competition, 2006-2007

J. Burton Linker Award for excellence in teaching by a graduate student, Department of Mathematics, University of North Carolina, 2004-2005

Research Assistant, University of North Carolina, January - May 2005

Honorable Mention, National Science Foundation Graduate Fellowship Competition, April 2003

Graduate Assistance in Areas of Nation Need (GAANN) Fellow, University of North Carolina, August 2001 - July 2004

Mathematics Department Scholarship, Ohio State University, September 2000 - June 2001

National Merit Scholarship, Ohio State University, September 1997 - June 2001

Ohio Board of Regents Scholarship, Ohio State University, September 1997 - June 2001

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American Mathematical Society, 2002-present

Association for Women in Mathematics, 2005-present

Mathematical Association of America, 2009-present