

MATHEMATICS DEPARTMENT
 CORNELL UNIVERSITY
 ITHACA, NY 14850

E-MAIL: kelly.delp@gmail.com

Research Interests: Geometric Topology.

Education:

Ph.D Mathematics, University of California, Santa Barbara Spring 2005
 • Dissertation Advisor: Daryl Cooper
 • Dissertation Title: *Almost Periodic Flows on 3-Manifolds*
M.S. Mathematics, Virginia Polytechnic Institute, Virginia Spring 1999
B.A. Mathematics (*Summa Cum Laude*), Salisbury State University, Salisbury, MD Spring 1997

Academic Positions:

Senior Lecturer, Cornell University Fall 2015–present
Assistant Professor, Ithaca College Fall 2013–Spring 2015
Associate Professor, Buffalo State College 2013–2014
Assistant Professor, Buffalo State College 2007–2013
Visiting Assistant Professor, State University of New York at Buffalo 2006–2007
Assistant Professor, California Polytechnic State University, San Luis Obispo 2005– 2006

Undergraduate Courses Taught: *Calculus I & II, Business Calculus, Functions and Modeling II, Abstract Algebra, Real Analysis, Differential Equations, Intermediate Differential Equations, Methods of Proof, Math for Elementary School Teachers, Contemporary Mathematics, Linear Algebra, Discrete Mathematics, Topology, Seminar in Geometry and Groups, Number Theory, Business Statistics, Math and Society, Math Experimentation, Junior Research.*

Graduate Courses Taught: *Galois Theory, Modern Geometry, Abstract Algebra.*

Publications:

- Kelly Delp, Craig S. Kaplan, Douglas McKenna, and Reza Sarhanghi, editors. *Proceedings of Bridges Baltimore: Mathematics, Art, Music, Architecture and Culture*, (2015), Tessellations Publishing, Pheonix, Arizona.
- (with Sam Lloyd ¹) Into the Shadows: Approximating Images by Orthogonal Projection. *Bridges Baltimore Conference Proceedings*, (2015), 515-519.
- (with Michael Filipksi ²) Two-Parameter Taxicab Trig Functions. *Involve, Vol. 8 No. 3*, (2015), 467-480.
- Stripey Squares. *Bridges Seoul Conference Proceedings*, (2014), 73-78.
- High Fashion Meets Higher Mathematics. In Mircea Pitici, (Ed.) *The Best Writing on Mathematics 2013* (pp. 109-119), Princeton University Press, (2014).
- High Fashion Meets Higher Mathematics, *Math Horizons*, (November 2012), 5-10.
- (with William P. Thurston) Playing with Surfaces: Spheres, Monkey Pants, and Zippergons, *Bridges Coimbra Conference Proceedings* (2011), 1-8.
- (with Daryl Cooper) The Marked Length Spectrum of a Projective Manifold or Orbifold, *Proceedings of the AMS*, 138 (2010), 3361-3376.
- Almost Periodic Flows on 3-Manifolds, *Algebraic & Geometric Topology* 7 (2007) 157–180.

¹Ithaca College undergraduate

²Buffalo State undergraduate

Invited talks:**Conference/Workshop Presentations/Outreach Events**

- Balloon Geometry—public outreach event sponsored by MSRI and Bridges
Part of National Math Day Event, Washington DC April 2015
- Playing with Surfaces: Spheres, Monkey Pants, and Zippergons
NES/MAA Sectional Meeting, Southern Connecticut University November 2014
- MoSAIC speaker/Workshop Presenter
Mathematics of Science, Art, Industry, Culture
Columbia Secondary School, hosted by Columbia University October 2014
- Playing with Surfaces: Spheres, Monkey Pants, and Zippergons
What's Next? The Mathematical Legacy of Bill Thurston, Cornell University June 2014
- Playing with Surfaces: Spheres, Monkey Pants, and Zippergons
Banquet Speaker MAA Seaway Sectional, Buffalo, NY April 2014
- Playing with Surfaces: Spheres, Monkey Pants, and Zippergons
Symposium for Undergraduates in the Mathematical Sciences (SUMS), Brown University April 2014
- The Geometry of Strictly Convex $\mathbb{R}P^2$ Surfaces
PCMI Undergraduate Faculty Program, Park City, Utah July 2012
- Playing with Surfaces: Spheres, Monkey Pants, and Zippergons
Keynote address at Bridges 2011: Math, Art, Architecture, and Music, Coimbra, Portugal July 2011
- The Geometry of Real Projective Structures
Mathematical Research Communities (MRC) Workshop, Snow Bird, Utah June 2011
- Gromov-Hausdorff Limits of Strictly Convex Real Projective Structures
Geometry, Topology, and Dynamics of Character Varieties
Institute of Mathematics, National University of Singapore July 2010
- Convex Projective Structures on 2-Orbifolds
Connections for Women: Teichmüller Theory and Kleinian Groups, MSRI, Berkeley, CA August 2007

Seminar/Colloquium Presentations:

- Mathematics Colloquium, Salisbury University, Maryland October 2014
- Mathematics Colloquium, Monmouth University, New Jersey October 2014
- Topology and Geometry Seminar, Yale University April 2012
- Mathematics Colloquium, University of North Carolina, Greensboro March 2012
- Mathematics Colloquium, Canisius College, Buffalo, NY November 2011
- Math Club Presentation, Buffalo State College December 2010
- Topology Seminar, Cornell University February 2010
- Topology Seminar, University of Maryland at College Park May 2009
- Topology Seminar, SUNY Binghamton March 2009
- Topology Seminar, University of South Alabama February 2009

- Topology Seminar, University of California at Santa Barbara January 2009
- Topology Seminar, University at Buffalo March 2008
- Topology Seminar, University at Buffalo September 2006
- Geometry and Topology Seminar, San Luis Obispo April 2006
- Geometry and Topology Seminar, San Luis Obispo October 2005
- Topology Seminar, University of Texas at Austin January 2005
- Colloquium, Gettysburg College November 2004
- Topology Seminar, University of California, Santa Barbara November 2004

Contributed talks:

- **Stripey Squares.**
Bridges: Math, Art, Music and Architecture, Seoul, Korea August 2014
- **Convex Real Projective Structures**
NSF CBMS Conference: Families of Riemann Surfaces and Weil-Petersson Geometry, Connecticut July 2009
- **Almost Periodic Flows on 3-Manifolds**
AMS regional conference, Albuquerque, New Mexico October 2004
- **Almost Periodic Flows and Hyperbolic 3-Manifolds**
Workshop in Geometric Topology, Park City, Utah June 2003

Grants Received:

- **Grant Allocation Committee Award**, Buffalo State College (\$650) October 2012
- **Provost's Incentive Grant** (\$1000), Buffalo State College March 2011
- **AWM mentoring Travel Grant** (\$4000), Association for Women in Mathematics 2009

Honors and Awards:

- **Departmental Merit Award**, Ithaca College Mathematics Department Spring 2015
- **Drescher Award**, Award from SUNY/UUP granting a one semester release from teaching. Spring 2010
- **Outstanding Teaching Award**, UCSB Mathematics Department 2004
- **Eugene Cota-Robles Fellowship**, University of California Fellowship 1999–2003
- **Most Promising Mathematician**, Salisbury State University 1997
- **Scholar Athlete Award**, Salisbury State University 1997

Departmental Service:

- Activities Committee, Ithaca College Fall 2014–Spring 2015
- Curriculum Committee, Mathematics Department, Ithaca College Spring 2014
- Math Day presenter, Ithaca College Spring 2014, Spring 2015
- Math Club advisor, Ithaca College Fall 2013
- Organized Freshman Orientation, Buffalo State Fall 2012
- Math Club advisor, Buffalo State Fall 2009, 2011–Fall 2013
- Curriculum Committee, Mathematics Department, Buffalo State College 2008–2009, 2010–2011
- Secretary, Mathematics Departmental Meetings, Buffalo State College Fall 2007

College Service:

- Panelist, Women in STEM event at Ithaca College, Spring 2015
- Selection Committee, President’s Award for Excellence in Academic Advisement
Buffalo State College Spring 2011
- Engel Humanitarian Award Committee, Buffalo State College Spring 2008
- College of Science and Mathematics Personnel Document Committee
California Polytechnic University Fall 2005–Winter 2006

Professional Service:

- 2015 *Bridges: Math, Art, Architecture and Music Proceedings*, Program Chair
- Lead organizer of *Geometry, Groups, and 3-Manifolds* conference, Berkeley, CA , May 2015.
- Member of 2012, 2013 and 2014 *Bridges: Math, Art, Architecture and Music* program committee.
Reviewed papers for the proceedings.
- Co-organized a special session for the 2012 Joint meetings of the AMS/MAA.
- Referee for the *Bulletin of the Mexican Mathematical Society*, and the *Journal of Mathematics and the Arts*.