Samantha Pezzimenti
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Bryn Mawr, Pennsylvania

June 12, 2017

Education

- **Bryn Mawr College** — Bryn Mawr, PA
  Ph.D Mathematics (in progress) — *Expected May 2018*
  M.A. Mathematics — *May 2015*
- **Ramapo College of New Jesery** — Mahwah, NJ
  B.S. Mathematics — *May 2012*
  - Graduated Suma Cum Laude with honors and distinction, with a 3.99 GPA
  - Studied abroad at Kingston University in London, UK, July 2009
  - Honor Societies: Alpha Lambda Delta, Pi Mu Epsilon, Golden Key Honor Society

Research Experience

- **Ph.D. Candidate** — Bryn Mawr College
  Immersed Lagrangian Fillings of Legendrian Knots — November 2015 - Present
  Advisor: Lisa Traynor
- **Master's Thesis** — Bryn Mawr College
  Minimal Genus Lagrangian Caps of Legendrian Knots — May 2014 - May 2015
  Advisor: Lisa Traynor
- **Undergraduate Research** — Ramapo College of New Jersey
  Minimal Degree Parameterizations of the Trefoil and Figure Eight Knots — May 2011 - August 2012
  Advisor: Donovan McFeron

Teaching Experience

- **Adjunct Professor** — Ocean County College
  Calculus II — *Summer 2016*
- **Teaching Assistant** — Bryn Mawr College
  Undergraduate Courses — *2012-Present*
  - Taught a section of Calculus II (Spring 2017).
  - Courses TA-ed: Multivariable Calculus, Linear Algebra, Knot Theory, Probability, Analysis, Abstract Algebra, Combinatorics, Topology
    * Grade homework assignments and exams.
    * Lead multiple problem sessions each week.
    * Substitute teach and give occasional lectures.

- **Mathematics Tutor** Ramapo College
  Undergraduate Courses *2009-2012*
  - Courses: Elementary Algebra, Transitional Mathematics, Math for the Modern World, Calculus
  - Tutored students in mathematics both one-on-one and in small groups.
  - Ran review sessions along with Professor.
- **Reading and Writing Workshop Instructor** Ramapo College
  High School English *Fall 2011*
  - Weekly after-school program at Ramsey High School, in collaboration with Ramapo College, for students who seek extra help in reading and writing.
  - Planned and executed weekly lesson plans for my group of two students.

Awards, Grants & Honors

- ***McPherson Award for Excellence and Service to the Community*** *May 2017*
- ***Margaret LaFoy Rossiter and Mabel Gibson LaFoy Fellowship*** *2016/17 Academic Year*
- ***Bryn Mawr College Teaching Assistantship and Tuition Award*** *September 2012-Present*
- ***Dean's Certificate in Pedagogy*** *May 2016*
- ***Art Exhibitor at the Joint Mathematics Meeting***
  - Painting entitled *Square Root of Two* *January 2015*
  - Sculpture entitled *Legendrian Unknot* *January 2014*
- ***Dean's Award for Outstanding Achievement in Mathematics*** *April 25, 2012*
- ***Ramapo College Presidential Scholarship*** *September 2008-May 2012*
  - Full tuition, room, and board

Presentations

- ***Immersed Lagrangian Fillings of Legendrian Knots***
  - Graduate Student Geometry and TopologyConference, Michigan State *April 8, 2017*
- ***Knot Polynomials and the Information they Encode***
  - EPaDel/NJ MAA Meeting, Kutztown University *April 1, 2017*
- ***Legendrian Knots and their Fillings***
  - Graduate Student Research Symposium, Bryn Mawr College *March 29, 2017*
- ***Immersed Lagrangian Fillings of Legendrian Knots***

- Tech Topology Conference, Georgia Tech *December 10, 2016*

- ***Lagrangian Fillings of Legendrian Knots***
  - EPaDel/NJ MAA Meeting, Villanova University *November 12, 2016*

- ***The Wizardry of Whitney's Theorem II***
  - Part 1: PACT Seminar, Bryn Mawr College *January 26, 2016*
  - Part 2: PACT Seminar, Bryn Mawr College *February 2, 2016*
  - Distressing Math Collective, Bryn Mawr College *January 28, 2016*

- ***Minimal Genus Lagrangian Caps of Legendrian Knots***
  - Master's Thesis Defense, Bryn Mawr College *May 7, 2015*
  - GSAS Poster Session, Bryn Mawr College *April 7, 2015*

- ***Honeycombs and Infinite Soccer Balls: Introduction to Non-Euclidean Geometries***
  Workshop geared towards grade school and beginning college students.
  - Math Teachers Circle, The Philadelphia School, Philadelphia, PA *March 24, 2015*
  - Guest Lecture, Westwood Regional High School, Westwood, NJ *June 9, 2014*
  - Temple Mathematics Circle, Temple University *March 29, 2014*
  - Guest Lecture, Ocean County College, Toms River, NJ *March 14, 2014*
  - Guest Lecture, Ramapo College, Mahwah, NJ *March 11, 2014*
  - CATALYST, Swarthmore College *March 24, 2013*

- ***The Wizardry of Whitney's Theorem***
  - Distressing Math Collective, Bryn Mawr College *October 9, 2014*
  - EPaDel MAA Meeting, University of Scranton *April 26, 2014*

- ***The Braid Group and Other Tangled Topics***
  - Distressing Math Collective, Bryn Mawr College *January 30, 2014*

- ***What's Behind Door Number One?: How not to get zonked in 'Let's Make a Deal' and 'Deal or No Deal'***
  - Distressing Math Collective, Bryn Mawr College *September 19, 2013*

- ***Math and Crafts: Fun with Non-Euclidean Geometry***
  - Distressing Math Collective, Bryn Mawr College *April 4, 2013*

- ***Minimal Degree Parameterizations of the Trefoil and Figure Eight Knots***
  - Distressing Math Collective, Bryn Mawr College *November 1, 2012*
  - Theoretical and Applied Sciences Research Symposium, Ramapo College *April 18, 2012*
  - Spuyten Duyvil Undergraduate Mathematics Conference, Ramapo College *April 14, 2012*
  - Honors Symposium, Ramapo College *April 4, 2012*
  - Joint Mathematics Meeting, Boston, Massachusetts *January 5, 2012*

- ***Models of the Hyperbolic Plane***

– Math Club Meeting for Undergraduate Speakers, Ramapo College *April 19, 2011*

Service

- **Graduate Student Association** Bryn Mawr College
  Co-Chair *September 2015–Present*
  Mathematics Department Representative *September 2014–May 2015*

- **GGSM Professional Development Seminars** Bryn Mawr College
  Organizer *September 2016–Present*

- **Math Awareness Week** Bryn Mawr College
  Organizer April 2016/2017
  - Performed a Mathematical Magic Show for undergraduate students.
  - Led a Mathematical Knitting Circle for the Distressing Math Collective.
  - Prepared and hosted a "Math Pictionary" game for undergraduate students.

- **Math Counts Competition** Ocean County College
  Volunteer Grader January 30, 2016

- **Outreach to high schools**
  Biotechnology High School September 24-25, 2015
  - Led discussions through Skype about whether math was invented or discovered as part of the school's "Theory of Knowledge" class.

  Westwood Regional High School June 9, 2014
  - Led a hands-on workshop about Non-Euclidean geometries.

- **Math Teachers Circle** The Philadelphia School
  Workshop Leader March 24, 2015
  - Planned and led a workshop to teach math teachers about Non-Euclidean geometry.

- **Temple Mathematics Circle** Temple University
  Workshop Leader
  - Planned and led workshops for advanced 5th-8th graders:
    * "The Mathematics of Coloring" *March 29, 2014*
    * "Euclidean and Non-Euclidean Tessellations" *February 21, 2015*

- **Graduate Fair Representative** Joint Mathematics Meetings
  San Antonio, TX *January 2015*
  Baltimore, MD *January 2014*

- **CATALYST Conference** Swarthmore College
  Workshop Leader *March 24, 2013*
  - Program to encourage female middle school students to pursue STEM fields.
  - Planned and led a workshop entitled "Honeycombs and Infinite Soccer Balls: Euclidean and Non-Euclidean Tessellations".

- **Spuyten Duyvil Undergraduate Mathematics Conference** — Ramapo College
  Conference volunteer and presenter — *April 14, 2012*
- **Pi Mu Epsilon Mathematics Honor Society** — Ramapo College
  Vice-President and Secretary — *March 2011–March 2012*

Funded Workshops and Conferences

- **Graduate Student Geometry and Topology Conference** — East Lansing, MI
  Michigan State University — *April 8-9, 2017*
- **Tech Topology Conference** — Atlanta, GA
  Georgia Tech — *December 9-11, 2016*
- **Topology Students Workshop** — Atlanta, GA
  Georgia Tech — *June 6-10, 2016*
- **Dusa McDuff's 70th Birthday Conference** — New York City, NY
  Columbia University — *March 17-20, 2016*
- **AWM Research Symposium** — College Park, MD
  University of Maryland — *April 11-12, 2015*
- **Joint Mathematics Meeting** — Various Locations
  San Antonio, TX — *January 10-13, 2015*
  Baltimore, MD — *January 15-18, 2014*
  Boston, MA — *January 4-7, 2012*
- **Redbud Topology Conference** — Fayetteville, AR
  University of Arkansas — *March 8-10, 2013*
- **Women and Mathematics Program** — Princeton, NJ
  Institute for Advanced Study — *May 14-25, 2012*
- **Garden State Undergraduate Mathematics Conference** — Newark, NJ
  Essex County College — *April 2, 2011*

Research Seminars

- **Philadelphia Area Contact Topology (PACT)** — Bryn Mawr, PA
  Bryn Mawr College — *Weekly*
- **Philadelphia Area Topology (Contact/Hyperbolic) Seminar (PATCH)** — Philadelphia, PA
  UPenn, Temple University, Haverford College and Bryn Mawr College — *Monthly*
- **EPaDel MAA Meetings** — Various Locations
  Kutztown University — *April 1, 2017*
  Villanova University — *November 12, 2016*
  Scranton University — *April 26, 2014*
  St. Joseph's University — *November 9, 2013*