

Meredith Perrie Casey

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Education

Ph.D. Mathematics (Graduation date projected)	May 2013
Georgia Institute of Technology	
Doctoral Minor: Physics	
M.S. Mathematics	July 2010
Georgia Institute of Technology	
Graduated with Honors, 4.0 G.P.A	
B.S. Mathematics	May 2008
University of Georgia	
Graduated with Honors	
Earned Certificate in Computing	

Academic Positions

Graduate Research Assistant	August 2011 - Present
Georgia Institute of Technology Department of Mathematics	
Visiting Graduate Research Assistant	November 2011
University of Bielefeld, Germany	
Lead Instructor and Teaching Assistant	August 2008 – July 2011
Georgia Institute of Technology Department of Mathematics	
NSF Mathematics Research Assistant	Summer 2007
Rose-Hulman Institute of Technology.	
VIGRE Undergraduate Mathematics Research Assistant	August 2006 - May 2008
University of Georgia Department of Mathematics	
Undergraduate Grader	August 2005 - May 2007
University of Georgia Department of Mathematics	

Papers

1. *Intrinsic Symmetry Groups of Links with Eight and Fewer Crossings* with Dr. Jason Cantarella et. al., arXiv:1010.3234v1. 2010
2. *Elliptical Sessile Drops* with David Finn and Emma Norbrothen. *Pacific Journal of Mathematics* (In progress), 2011
3. *Modeling the Shape of a Cookie*. *Rose-Hulman Journal of Mathematics*, 2007

Presentations/Talks

As Invited Speaker

“Branched Covers and Contact Geometry” AMS Sectional Meetings	March 2011
“Modeling the Shape of a Cookie” Joint REU Conference in Indiana	July 2007
“Computing the Rope-length of Tight Knots” Mercer University MUURMAC Conference for undergraduate research	March 2007

At Home Institution

“Application of Fractional Dehn Twists to Branched Covers” Georgia Institute of Technology Geometry Topology Student Seminar	February 2011
“Introduction to Branched Covers” Georgia Institute of Technology Geometry/Topology Working Seminar	February 2010
“Constructing 3-Manifolds” Georgia Institute of Technology Geometry/Topology Working Seminar	November 2009
“Modeling the Shape of a Cookie” Rose-Hulman University Geometry/Algebra Research Seminar	June 2007
“Coloring Surfaces of Positive Genus” University of Georgia Math Club Seminar	October 2006

Professional Service

Departmental

Georgia Tech Geometry Topology Student Seminar: Organizer	2010 - 2011
Georgia Tech Geometry Topology Working Seminar: Organizer	2011 - Present
New Student Orientation Committee, volunteer	2009 - 2010
Prospective Student Visitation Committee, volunteer	2009 - 2010

Outreach

Georgia Institute of Technology High School Mathematics Competition. In charge of organization, volunteers, and all preparation of event.	2008 - Present
Georgia Tech CULC Advisory Board	2011 - Present
Georgia Institute of Technology Resident Adviser, Graduate and Family Housing	2010 - Present
Teaching Assistant Feedback Forum	2009 - 2010

Conferences and Workshops

University of Nantes Trimester and International Conference on Contact and Symplectic Geometry	June 2011
Geometric Groups on the Gulf Coast; Panama City, FL	March 2011
AMS Sectional Meetings; Statesboro, GA	March 2011
CIMPA-UNESCO-VIETNAM School and Workshop on Braids in Algebra, Geometry and Topology; Hanoi, Vietnam	January 2011
MSRI Connections for Women; University of California, Berkely.	January 2010
Tulane Young Topologists; Tulane University	November 2009
Georgia Topology Conference ; University of Georgia	May 2009
Southeast Geometry Conference; Georgia Institute of Technology	Mar 2008

Teaching Experience

Lead Instructor

Math 1000 (OMED Challenge Course)	2011
Calculus I	2010
Survey of Calculus	2010
CETL 8002	2009

Recitation Leader

Calculus I	2008, 2009
Calculus II	2009, 2011
Honors Calculus III	2010
Differential Equations	2009

Grader/Teaching Assistant

Introduction to Topology	2009
Algebraic Topology	2010
CETL 8000	2009, 2010

Awards and Honors

Georgia Tech School of Math Research Fellowship Award	Summer 2012
Presidential Scholar, Georgia Institute of Technology	2008 - Present
Recognized by students at "Thank a Teacher" ceremony	2011, 2010
Nominated for "Most Outstanding Teaching Assistant" for Georgia Tech	2010
Nominated for "Most Outstanding Teaching Assistant" for Georgia Tech Department of Mathematics 2007	2009 - 2010
Nominated for "Most Outstanding Junior in Mathematics" At The University of Georgia. Received Honorable Mention	2007
Member of University of Georgia's Honors Program	2004 - 2008