

Mary Wilkerson

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Apartment 204
Myrtle Beach, SC 29579

EDUCATION

Ph.D., Mathematics, Spring 2012, Virginia Tech, Blacksburg, VA
Dissertation: Finite subdivision rules from matings of quadratic functions: existence and constructions
Advisor: William Floyd

M.S., Mathematics, Spring 2008, Virginia Tech, Blacksburg, VA
Thesis: Circle packing in Euclidean and hyperbolic geometries

B.S., Mathematics Education/Psychology; Spring 2007, Virginia Tech, Blacksburg, VA

PROFESSIONAL INTERESTS

Teaching: Calculus, proofs, analysis, mentoring undergraduate research
Research: Complex dynamics, combinatorial dynamics, discrete complex analysis

TEACHING

Assistant Professor, Department of Mathematics & Statistics, Coastal Carolina University, Conway, SC
Fall 2012 – Present

Visiting Faculty Member, Summer Mathematics Institute, Cornell University, Ithaca, NY
Summer 2012

Graduate Teaching Assistant, Department of Mathematics, Virginia Tech, Blacksburg, VA
Fall 2007 – Spring 2012 (Senior GTA Distinction Fall 2011 – Spring 2012)

Math Emporium Floor Assistant, Department of Mathematics, Virginia Tech, Blacksburg, VA
Spring 2005 – Fall 2007 (Supervisor Distinction Fall 2006 – Spring 2007)

CLASSES TAUGHT/COORDINATED

Precalculus (Coordinator VT Math 1015)
Calculus I (VT Math 1205, CCU Math 160)
Calculus II (VT Math 1206, VT Math 2016, CCU Math 161)
Calculus III (CCU Math 260)
Linear Algebra (CCU Math 344)
Complex Variables (CCU Math 452)
Real Analysis I and II (Cornell Summer Math Institute)

RESEARCH

A Subdivision Rule Construction on Critically Preperiodic Quadratic Matings, submitted to Conformal Geometry and Dynamics September 22, 2014.

TALKS/WORKSHOPS

Math: The Fine Line Between Order and Chaos, October 22, 2013 and November 11, 2014; One Talk One Time series, Coastal Carolina University, Conway, SC

Finite Subdivision Rules from Matings of Quadratic Polynomials, April 3, 2014; Applied Mathematics Seminar, University of Wisconsin-Milwaukee, Milwaukee, WI

Matings of Critically Preperiodic Polynomials: Dynamics through Tile Subdivision, January 17, 2014; AMS Special Session on Complex Dynamics, Joint Mathematics Meetings, Baltimore, MD

Dynamics of Mated Quadratics through Tile Subdivision, March 16, 2013; MAA Southeastern Section meeting, Winthrop University, Rock Hill, SC

Matings of Quadratic Maps, March 16, 2012; Visitor's Day Seminar, Virginia Tech, Blacksburg, VA

Building Confident Learners, Co-led with Eileen Shugart and VT Math Department SGTAs October 19, 2011; GTA Teaching Certification Workshops, Virginia Tech, Blacksburg, VA

Finite Subdivision Rules from Matings of Rational Maps, December 3, 2010; Complex Dynamics Seminar, Virginia Tech, Blacksburg, VA

HONORS/AFFILIATIONS

American Mathematical Society, 2007—Present

Project NExT Fellow, 2013—2014

Complex Dynamics Mathematics Research Communities, accepted participant 2013

VT Mathematics Department Outstanding GTA Award recipient, 2012

Pi Mu Epsilon Mathematics Honor Society, inducted 2007

Phi Beta Kappa, inducted 2007

National Merit Scholarship recipient, 2003—2007

SERVICE

Coastal Carolina University High School Mathematics Contest Director 2014—Present

Coastal Carolina University High School Mathematics Contest writer 2013—Present

Recruitment and Retention Committee 2013—Present

Safe Zone Planning Committee 2013—Present