

Elizabeth L. Fitzgibbon

CONTACT INFORMATION	Department of Mathematical Sciences Salve Regina University 100 Ochre Point Avenue Newport, RI 02840	elizabeth.fitzgibbon@salve.edu (401) 341-3155 www.elizabethfitzgibbon.com
RESEARCH INTERESTS	<ul style="list-style-type: none">• Complex dynamics• Current focus: Dynamics of complex rational maps	
EDUCATION	Boston University , Boston, Massachusetts Ph.D., Mathematics, May 2014 Advisor: Robert L. Devaney Long Island University – C. W. Post Campus , Brookville, New York M.S., Applied Mathematics, May 2005 B.A., Mathematics for Secondary Education, magna cum laude, January 2002	
EMPLOYMENT	Salve Regina University , Newport, Rhode Island <i>Assistant Professor</i> , Department of Mathematical Sciences September 2014 – Present Syosset Central School District , Long Island, New York <i>High School Mathematics Teacher</i> January 2002 – September 2009	
HONORS, AWARDS, & CERTIFICATIONS	Teaching Fellowship, Boston University, September 2009 – present NSF Research Training Group grant, Boston University, Summer 2012 Outstanding Teaching Fellow in Mathematics and Statistics, College of Arts & Sciences, Boston University, May 2012 Permanently Certified NYS Public School Teacher: Mathematics 7 – 12, 2007 Kappa Mu Epsilon, Math Honor Society, inducted Spring 2001 Dean’s List, Long Island University, 1999–2001 Girl Scout Gold Award, 1998	
RESEARCH PAPERS	E. Fitzgibbon, S. Silvestri. “Rational Maps: Julia sets from accessible Mandelbrot sets are not homeomorphic.” (submitted) P. Blanchard, D. Cuzzocreo, R. L. Devaney, E. Fitzgibbon, S. Silvestri. “A dynamical invariant for Sierpinski cardioid Julia sets.” (<i>Fundamenta Mathematicae</i> 226, 2014, 253-277) P. Blanchard, D. Cuzzocreo, R. L. Devaney, E. Fitzgibbon. “Accessible mandelbrot Sets in the Family $z^n + \frac{c}{z^n}$.” (to appear, <i>Qualitative Theory of Dynamical Systems</i>) E. Fitzgibbon, S. Silvestri. “A topological invariant for Julia sets from accessible Mandelbrot sets.” (in preparation)	

- INVITED TALKS *International Conference on Difference Equations and Applications.* Barcelona, Spain; July 2012. “Homeomorphisms between Julia sets of rational maps.”
- 47th Spring Topology and Dynamics Conference.* Central Connecticut State University; March 2013. “Rational Maps: Julia sets from accessible Mandelbrot sets are not homeomorphic.”
- Joint Mathematics Meetings, Special Session on Complex Dynamics.* Baltimore, Maryland; January 2014. “Rational Maps: Julia sets from accessible Mandelbrot sets are not homeomorphic.”
- Joint Mathematics Meetings, MAA Invited Paper Session on Fractal Geometry and Dynamics.* San Antonio, Texas; January 2015. “Complex rational maps and the structure of Julia sets from accessible Mandelbrot sets.”
- Smith College Math Lunch Talk.* Northampton, Massachusetts; October 2015. “Fractals in the Julia sets of complex rational maps.”
- INVITED PARTICIPANT *AMS Math Research Communities workshop on Complex Dynamics.* Snowbird Resort, Utah; June 2013.
- POSTER PRESENTATIONS *Midwest Dynamical Systems Meeting.* University Illinois, Urbana–Champaign; November 2013. “Rational Maps: Julia sets from accessible Mandelbrot sets are not homeomorphic.” With S. Silvestri.
- INTRA-UNIVERSITY TALKS *Graduate Student Dynamics Seminar,* Boston University
 “Existence of homeomorphisms between Julia sets of rational maps.”
 October 2012
 “An introduction to Complex Dynamics focusing on the Mandelbrot set.”
 February 2011
- CONFERENCE ATTENDANCE *Complex Dynamics and Arithmetic Geometry Conference*
 University of Illinois at Chicago; Chicago, Illinois; June 2013.
- Joint Math Meetings*
 Boston, Massachusetts; January 2012.
- Mathfest*
 Lexington, Kentucky; August 2011.
- Differential Equations Across the Collegiate Curriculum*
 Gustavus Adolphus College; Saint Peter, Minnesota; June 2011.
- Trends in Complex Dynamics*
 Clay Math Institute; Cambridge, Massachusetts; May 2011.
- Frontiers in Complex Dynamics*
 BIRS; Banff, Canada; February 2011.
- MEMBERSHIPS American Mathematical Society (AMS)
 Mathematical Association of America (MAA)
 National Council of Teachers of Mathematics (NCTM)

TEACHING

Salve Regina University

MA 204 Calculus IV
MA 203 Calculus III
MA 191 Applied Calculus
MA 172 Quantitative Methods for Business
STA 201 Statistical Methods
SCD 321 Practicum for Curr., Instr., & Assessment in Secondary School
SCD 322 Practicum for Methods in Secondary School
SCD 440 Practicum in Secondary Education
SCD 441 Secondary Student Teaching

Boston University

Instructor

MA 226 Differential Equations, Summer 2013
MA 231 Honors Differential Equations, Fall 2012
MA 121 Calculus I for Social Science, Summer 2011
MA 122 Calculus II for Social Science, Summer 2010
MA 124 Calculus II, Summer 2010

Teaching Fellow

MA 225 Multivariable Calculus, Fall 2013
MA 226 Differential Equations, Spring 2013
MA 121 Calculus II for Social Science, Spring 2010
MA 123 Calculus I, Fall 2010
MA 121 Calculus I for Social Science, Fall 2009

Summer Preview Instructor

Summer 2013. Designed curriculum and taught one-week enrichment programs for students entering ninth and tenth grades.

PROMYS for Teachers Tutor

Summer 2013. Provided one-on-one tutoring in Geometry and Symmetry course for high school teachers participating in their third year of the program.

Senior Teaching Fellow, RULE Calculus

Fall 2011. Wrote worksheets for weekly discussion sections in Calculus I & II. Led large discussion sections and handled administrative tasks for approximately 500 students. Coordinated with eight additional teaching fellows.

Syosset Central School District

High School Mathematics Teacher

Courses in Algebra, Geometry, Trigonometry, Pre-Calculus, and Discrete Mathematics to classes at all ability levels.

ACADEMIC
SERVICE

Academic Advising Council

Salve Regina University, 2016 – Present

Advisory Committee on Faculty Development

Salve Regina University, 2015 – Present

Hiring Committee, Department of Mathematical Sciences

Salve Regina University, January 2016

Graduate Student Teaching Seminar Co-founder & Co-organizer

Department of Mathematics & Statistics, Boston University, 2013 – 2014

Graduate Student Professional Development Seminar Co-founder & Co-organizer

Department of Mathematics & Statistics, Boston University, 2013 – 2014

RULE Grant Committee (Redesigning the Undergraduate Learning Experience)

Department of Mathematics & Statistics, Boston University, 2010 – 2011

Student Teaching Mentor, Syosset High School

Robert Vannes, Spring 2009; Michael Finck, Spring 2007

Mathletes Co-advisor, Syosset High School, 2008 – 2009

Al Kalfus Long Island Math Fair Committee, 2005 – 2007

NON-ACADEMIC
SERVICE AND
EMPLOYMENT

Gold Award Committee

Girl Scouts of Nassau County, Long Island; 2004 – 2010.

Cadette/Senior/Ambassador Troop Leader

Glen Cove Association of Girl Scouts, Long Island; 2002 – 2010.

Program Director and Sailing Instructor

Camp Blue Bay, East Hampton, New York; 2001 – 2006.