University of Puerto Rico-Cayey

Numerical Analysis

Abstract Algebra I

Abstract Algebra II

Complex Analysis (Capstone)

Calculus I

Precalculus

College Algebra

Remedial Mathematics

DEPARTAMENTAL SERVICE

University of South Florida

Calculus I coordinator, 2017

University of Puerto Rico-R o Piedras

Member of the Advisory Committee, 2015

Developer of the Business Calculus Laboratory on MyMathLab (Pearson), 2015

Advanced Calculus for Business students Syllabus Reviewer, 2014

University of Puerto Rico-Cayey

Numerical Analysis Syllabus Reviewer, 2013

College Algebra and Precalculus Coordinator, 2012-2013

Professional Development Committee, 2010-2013

Mathematics Week Committee, 2010-2013

Organizing Committee of the 2013 Calculus Olympiad, exam writer and corrector

Organizing Committee of the 2012 Calculus Olympiad, corrector

Organizing Committee of the 2011 Pre-calculus Olympiad, exam writer and corrector

EXTRACURRICULAR UNIVERSITY SERVICE

University of Puerto Rico-R o Piedras FOPI (Fondos Para la Investigacion) proposal reviewer, 2014

University of Puerto Rico-Cayey Mathematics Circle Mentor, 2010-2013

Member of the Inter University Seminar on Mathematical Sciences Research

Member of the Inter University Seminar on Mathematical Sciences Research Permanent Committee, 2013-2015

OTHER PROFESSIONAL EXPERIENCE

Member of the Puerto Rico College Board Committee of Examiners (PEAU), 2014-2015 Puerto Rico Department of Education educational workshop facilitator, 2012-2015

AWARDS

2011 Graduate Alliance for Education in Louisiana (GAELA) Dissertation Writing Fellowship

2009-2010 Experimental Program to Stimulate Competitive Research (EPSCoR-NSF)
Research Assistant

2006-2007, 2008-2009 Graduate Teaching Assistant

2003-2005, 2007-2008 Vertical Integration of Research and Education (VIGRE-NSF) Fellowship

2003 The Graduate Alliance for Education in Louisiana (GAELA) Fellowship

INVITED TALKS

2012 Modeling Flows Across Permeable Membranes, University of Puerto Rico-R o Piedras

2011 Stokes Flow Across Permeable Membranes, XXVI Inter University Seminar on Mathematical Sciences Research (SIDIM). Humacao, PR

2010 A Method to Model Membrane Permeability, Society for Industrial and Applied Mathematics (SIAM) Conference. Pittsburgh, PA

SKILLS AND INTERESTS

Research Interests

Applied Mathematics, Partial Di erential Equations, Scienti c Computation, Numerical Analysis, Computational Fluid Dynamics

Computer Languages

Beginner: Fortran, Python

Intermediate: R. C++ and Java

Other Programming Tools

Intermediate: Maple and Mathematica Expert: LATEX, Matlab and Scilab

LANGUAGES

Spanish (Native)

English (Fluent)