

University of Puerto Rico-Cayey

Numerical Analysis
Abstract Algebra I
Abstract Algebra II
Complex Analysis (Capstone)
Calculus I
Precalculus
College Algebra
Remedial Mathematics

DEPARTMENTAL 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 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 Differential Equations, Scientific 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)