Ivan Rothstein, Ph.D

Education:

Doctor of Philosophy, Mathematics, Virginia Tech, Blacksburg, VA
Dissertation: *Semiclassical Scattering of two and three body systems*
Advisor: George Hagedorn
Master of Science, Mathematics, Virginia Tech, Blacksburg, VA
Bachelor of Science, Mathematics, Kent State University, Kent, Ohio

Work Experience:

Instructor of Mathematics: August 2014-Present
University of South Florida, Tampa, Fl

- Courses Taught: College Algebra, Pre-Calculus, Calculus I.
- Course Coordinator: College Algebra
- Several university wide projects to promote better teaching within the University and in the local community.
- Research projects involving electromagnetic scattering and surface waves off of curved surfaces.

Assistant Professor and Coordinator of Mathematics: August 2008 – June 2014
Florida Memorial University, Miami, FL

- Research: Fundamentals of Quantum Theory. Quantum Measurement
- Courses taught: Developmental Mathematics, College Algebra, Pre-Calculus Calculus I-III, Linear Algebra I-II, Advanced Calculus, Number Theory, History of Mathematics, Complex Variables
- Committees: Faculty Awards Committee, Curriculum and Instruction Committee, Committee on Information Technology. Core Curriculum committee, Institutional Review Board. Served as Coordinator of Mathematics scheduling and assessment 2011-present.

Assistant Professor of Mathematics: August 2006 - July 2008
University of Puerto Rico, Mayaguez, PR

- Research: Semiclassical limit of Quantum Mechanics, Functional Analysis.
- Courses taught: Calculus I-II, Principles of Applied Mathematics

Analyst: August 2004 - August 2006
SAIC, Arlington, VA

- Conducted analysis of the Future Combat Systems (FCS)
- Modified and improved resource management tools for FCS
- Developed an interface to integrate two software tools for the Joint Theater Air & Missile Defense Organization (JTAMDO)

- Simulated operational scenarios and provided weekly analytical reports to JTAMDO
- Created a model of SBIR system in support of Missile Defense Agency (MDA).

Publications:

- *Semiclassical wave packet scattering in one and two dimensions,* I.Rothstein, J. Math. Phys V45 p4261 (2004)
- Semiclassical Scattering of two and three body systems (2004)
- *Robust Optimal Switching Analysis of Single Server Reentrant Queues*, M. Day et al Comp. Opt. App. V22 p261 (2002)

Programming/Computer Skills:

C++, Matlab/Octave, Python, SAGE, PERL, Latex, Linux and Microsoft platforms,

Teaching Software: Familiarity with Course Management using ALEKS, CANVAS, and MyMathLab,