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PRESENT POSITION

University of South Florida, Department of Chemistry
Professor of Chemistry

Previous Experience

2000-2006 University of South Florida, Department of Chemistry
Associate Professor of Chemistry

1995-2000 Duquesne University, Department of Chemistry
Assistant Professor of Chemistry

1992-1995 Princeton University, Department of Chemistry
National Science Foundation, Computational Science and Engineering (CS&E) Postdoctoral
Research Associate with Professor Herschel Rabitz

- Developed molecular dynamics simulation methods for study of proteins and condensed phase systems
- Theoretical modeling of the long time dynamical behavior of proteins and polymers

1988-1992 Ph.D. in Chemistry, Boston University, with Professor David Coker

- Dissertation titled "Energetics and Dynamics of Excess Electrons in Simple Fluids"
- Developed novel computer simulation methods for mixed quantum-classical dynamics
- Characterized excess electronic relaxation processes in liquids
- Studied the nature of conducting electronic states in fluids

1984-1988 B.A. in Chemistry, Boston University

- Performed experimental and theoretical research with Professor Erwin Poliakoff on photoionization of small molecules
- Used synchrotron radiation at Brookhaven National Laboratory as a probe of electron-molecule scattering

AWARDS AND FURTHER EDUCATION

2002 University of South Florida Alumni Teaching Award

1998 NSF Career Development Award Theoretical Studies of Condensed Phase Conduction and Spectroscopic Processes, \$294,560. (1998-2002)

- 1998** Duquesne University, Bayer School of Natural and Environmental Sciences Award for Excellence In Scholarship
- 1993** National Science Foundation, Computer and Information Science and Engineering CS&E Postdoctoral Associateship, titled "A Highly Parallelizable Long Time Dynamical Simulation Algorithm Applied to Proteins"
- 1993** Metacenter Computational Science Institute in Parallel Computing, at the National Center for Supercomputer Applications, University of Illinois at Urbana-Champaign
- 1992** NATO Advanced Study Institute "New Perspectives on Computer Simulations in Chemical Physics," Alghero, Italy
- 1990** Charles Coulson Summer School in Theoretical Chemistry, University of Oxford, Oxford, England
- 1987** National Science Foundation Research Experience For Undergraduates Award, Brookhaven National Laboratory and Boston University Department of Chemistry

FUNDED GRANTS

- DOE** Co-PI on DOE Grant, 'Smart Porous Metal-Organic Frameworks for Hydrogen Storage and Recovery', \$882,000 (2007-2010)
- NSF** Co-PI on Stem Grant, 'Scholarships Reinforcing Computational Physical Science', \$500,000 (2006-2011)
- ACS** American Chemical Society, Petroleum Research Fund, Type AC, \$80000 (2005-2007)
- NASA** Co-PI, Smart Porous Metal-Organic Frameworks (MOF's) for Hydrogen Recovery & Storage, \$300,000 (2005-2007)
- NSF** PI, Theoretical Investigations of the Spectroscopy and the Associated Structure and Dynamics of Liquids and Their Interfaces, \$345,000 (2003-2007)
- NSF** REU, Co-PI, Integrated Interdisciplinary Nanoscience REU, \$213,000. (2003-2006)
- ACS** American Chemical Society, Petroleum Research Fund, Type AC, \$80000 (2003-2005)
- ACS** American Chemical Society, Petroleum Research Fund, Type AC, \$60000 (2001-2003)
- 1999 NSF Chemistry Research Instrumentation and Facilities (CRIF) Grant** Acquisition of Computer Equipment for an Advanced Parallel Computing Facility", \$110,000.
- NSF Career Development Award**, Theoretical Studies of Condensed Phase Conduction and Spectroscopic Processes, \$294,560. (1998-2002)
- ACS** American Chemical Society, Petroleum Research Fund, Type G, \$20000 (1996-1997)
- Duquesne University** Faculty Development Award for \$4615 (1996).
- NIST** Subcontractor on successful NIST grant with Moldyn Inc. to develop accelerated molecular dynamics techniques for polymers and proteins, \$27000 (1995-1997).
- NSF** Computational Science and Engineering (CS&E) Postdoctoral Research Associateship, 2 years of support totaling \$45,056 (1993-1995).
- NSF** "National Science Foundation International Travel Award" for \$1000 (1992).