

Rigoberto Hernandez
Center for Computational Molecular Science & Technology
School of Chemistry & Biochemistry
Georgia Institute of Technology, Atlanta, GA 30332-0400

Born:

December 4, 1967, Güinez, Havana, Cuba

EDUCATION:

Ph.D. in Chemistry, U.C. Berkley, 1993 (thesis advisor: W. H. Miller)
B.S.E. in Chemical Engineering and Mathematics, Princeton University, 1989
Magna Cum Laude, (thesis Advisor: C. Fefferman)

PROFESSIONAL EXPERIENCE:

2002–present Associate Professor, School of Chemistry & Biochemistry
2000–present Codirector, Center for Computational Molecular Science & Technology
1996–2002 Associate Professor, School of Chemistry & Biochemistry

ACADEMIC HONORS:

Goizueta Junior Professor (2002-2006)
Alfred P. Sloan Research Fellow (2000-2002)
Sigma Xi Southeast Regional Young Investigator (2000 and 2002)
Cottrell Scholar (Research Corporation, 1999-2004)
Sigma Xi Young Faculty Award (Georgia Tech, 1999)
Blanchard Assistant Professor of Chemistry (1999-2001)
NSF CAREER Award (1997-2002)

GRADUATE AND POSTDOCTORAL ADVISING (in past 5 years):

Ph.D. students: A. Overmyer, C. R. Locker, T. D. Shepherd, M. T. Vogt;
Postdoctoral students: E. Herskovitz, F. L. Somer;
4 Ph.D. students, and 2 postdoctoral fellows in all.

CURRENT RESEARCH SUPPORT:

National Science Foundation (02-13223), Sloan Foundation, Goizueta Foundation

OTHER COLLABORATORS (in past 48 months):

P. Doruker, R. L. Jernigan, J. Fourkas

SELECTED PUBLICATIONS:

1. "Nonstationary stochastic dynamics and applications to chemical physics," R. Hernandez and F. L. Somer, Jr., in *Theoretical Methods in Condensed Phase Chemistry*, edited by S. Schwartz (Kluwer Academic, The Netherlands, 2000), 91-116.
2. "Fast numerical integrator for stochastic differential equations with nonstationary multiplicative noise," E. Herskovitz and R. Hernandez, *J. Phys. Chem. A* **105**, 2687-2693 (2001).
3. "A Two-dimensional polymer growth model," M. T. Vogt and R. Hernandez, *J. Chem. Phys.* **115**, 1575-1585 (2001).
4. "A minimalist model protein with multiple folding funnels," C. R. Locker and R. Hernandez, *Proc. Natl. Acad. Sci.* **98**, 9074-9079 (2001).
5. "Chemical reaction dynamics with stochastic potentials beyond the high-friction limit," T. D. Shepherd and R. Hernandez, *J. Chem. Phys.* **115**, 2430-2438 (2001).
6. "A three-dimensional polymer growth model," M. T. Vogt and R. Hernandez, *J. Chem. Phys.* **116**, 10485-10491 (2002).
7. "Activated dynamics across aperiodic stochastic potentials," T. D. Shepherd and R. Hernandez, *J. Phys. Chem. B*, **106**, 8176-8181 (2002).
8. "The important fluctuation dynamics of large protein structures are preserved upon renormalization," P. Doruker, R. L. Jernigan, I. Navizet and R. Hernandez, *Int. J. Quant. Chem.*, **90**, 822-837 (2002).