CONTACT INFORMATION

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Research Interests

Condensed matter and biophysics

# Education

University of California, Los Angeles, Los Angeles, CA

Ph.D. Research Scholar - Physics (expected graduation date: June 2011)

- Thesis Topic: Aspects of polyelectrolyte physics
- Advisor: Professor Joseph Rudnick

# California Institute of Technology, Pasadena, CA

B.S. with honors - Physics (GPA 3.7)

• Graduation date: June 2006

# HONORS AND AWARDS

UC Graduate Research Mentorship Fellowship, awarded by UC, 2008-2009 Delsasso Fellowship, awarded by UCLA Department of Physics and Astronomy, 2006-2007 Hayman Scholarship, awarded by Caltech, 2007 Winner of Indiana College Mathematics Competition (one of three members on IUPUI team), 2002

# PUBLICATIONS

- Sisan, D, Landy, J., Levine, A. J., and Urbach, J. S. Density mode microrheology in polymer gels. In prep (2009)
- Landy, J. Modulation effects within electrolyte solutions. In prep (2009)
- Landy, J. and Rudnick, J. Electrostatic interactions between discrete helices of charge. In prep (2009)
- May, R. and Landy, J. Some problems with generating function solutions. FJMS 30(2008), 227-232
- Landy, J. and Sari, R. Centred approach to the period of anharmonic oscillators. Eur. J. Phys. 28(2007) 1051-1061.
- Landy, J. Localized PEPII Storage Ring Optics Measurements. SLAC-PUB SLAC-TN-05-055, April (2005)

# PROFESSIONAL EXPERIENCE

# University of California, Los Angeles, Los Angeles, CA

## Teaching Assistant, 2006-present

Undergraduate Courses: Classical Mechanics (6a lab, 4a lab, and 105 discussion), Electricity and Magnetism (1c discussion and 6c lab), Math Methods (135 discussion - Pilot graduate/undergraduate mentorship program 2009-2010)

# Stanford Linear Accelerator Center, Stanford, CA

Research Assistant, Summer 2005

Work with Professor Yiton Yan determined the number of beam position monitors required to completely specify the oscillation parameters of a beam packet orbiting through an accelerator storage ring.

# Roche Diagnostics, Indianapolis, IN

# Intern, Summers of 2002, 2003

Worked on the development of models for the chemical reaction which occurs during the sampling period of a blood glucose level measurement.

# References

Joseph Rudnick - Professor of Physics and Dean of Sciences - UCLA Alex Levine - Professor of Physical Chemistry - UCLA Re'em Sari - Professor of Astrophysics - Racah Institute (Israel)