

Benjamin J. Schwartz

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EDUCATION

University of California, Berkeley – Ph.D. in Physical Chemistry, awarded in December 1992.

University of Michigan, Ann Arbor – B.S. in Physics and Chemistry with highest distinction and honors in chemistry, awarded in May 1986.

RESEARCH POSITIONS

Distinguished Professor: Department of Chemistry and Biochemistry, UCLA (7/22–present)

- Femtosecond laser studies of the dynamics of charge-transfer reactions and solvated electrons
- Classical and quantum non-adiabatic computer simulations of charge transfer, solvation dynamics and the nature of linear response; development of multi-electron quantum simulation algorithms
- Relationship between photophysics, structure and charge transport in conjugated polymer films; optimization of interchain interactions for use in practical optoelectronic device applications

Professor: Department of Chemistry and Biochemistry, UCLA (7/04–6/22)

Associate Professor: Department of Chemistry and Biochemistry, UCLA (7/02–6/04)

Assistant Professor: Department of Chemistry and Biochemistry, UCLA (1/97–6/02)

Postdoctoral: Polymer Institute, Univ. of Calif., Santa Barbara (10/95–12/96) Advisor: Alan J. Heeger

- Ultrafast and other photophysical studies of semiconducting polymers and polymeric devices
- Investigations of solid state polymer lasing and stimulated emission in various environments

NSF Postdoctoral Fellow: Dept. of Chem., University of Texas at Austin (2/93–9/95) Advisor: Peter J. Rossky

- Microscopic analysis of solvation dynamics and quantum decoherence via computer simulation
- Extensive theoretical studies of transient hole-burning spectroscopy of the hydrated electron
- Construction of classical and quantum non-adiabatic molecular dynamics simulations

NSF Graduate Fellow: Dept. of Chem., University of Calif., Berkeley (9/86–1/93) Advisor: Charles B. Harris

- Femtosecond laser studies of solvent effects on proton transfer and isomerization reactions
 - Ultrafast investigations of excimer formation dynamics, vibrational energy transfer and geminate recombination of small molecules in condensed phases
 - Design and construction of an amplified femtosecond laser and data acquisition electronics
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SELECTED AWARDS and HONORS

Louis J. Bircher Memorial Lectureship, Vanderbilt University (4/22)

Jeremy Musher Memorial Lectureship in Chemistry, Hebrew University (6/17)

UCLA Distinguished Teaching Award (6/08)

Moscovitz Memorial Lectureship in Chemistry, University of Minnesota (10/07)

Hanson-Dow Award for Excellence in Teaching (10/02)

Camille Dreyfus Teacher-Scholar Award (5/01–4/06)

Alpha Chi Sigma Glenn T. Seaborg Award for Outstanding Research (4/01)

Research Corporation Cottrell Scholar Award (5/99–4/04)

Alfred P. Sloan Foundation Research Fellow (4/99–3/01)