Department of Chemistry, August 2017

POSTDOCTORAL SCHOLAR POSITIONS
ULTRAFAST NONLINEAR X-RAY SPECTROSCOPY; THEORY AND COMPUTATIONS

RESEARCH TOPICS:

(A) Attosecond X-ray Spectroscopy of Molecules
Developing time-dependent many-body approaches to nonlinear x-ray core-electron spectra and their description in terms of real-space and real-time wavepackets of electrons and nuclei. Computational tools will be implemented for the design and analysis of measurements involving multiple ultrafast optical and x-ray pulses.

(B) Nonlinear Spectroscopy with Quantum Optical Fields
Novel optical signals which use entangled photons, pulse shaping, and coherent control algorithms are designed and simulated for probing vibrational and exciton dynamics in molecular aggregates and semiconductor nanostructures.

Recent Ph.D. is required (2013 or later). Salary will be commensurate with experience. Please apply online at: https://recruit.ap.uci.edu/apply/JPF04229 and send a curriculum vitae, publication list and arrange for three letters of recommendation to be sent to:

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Recent Publications


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