

# WENDY RYAN GORDON

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## EDUCATION

- Expected Fall 2002      Ph.D. Physical Chemistry  
University of Chicago      Chicago, IL
- June 1998                M.Sc. Physical Chemistry  
University of Chicago      Chicago, IL
- June 1997                B.Sc. Chemistry  
University of Virginia      Charlottesville, VA

## RESEARCH EXPERIENCE

- 7/97-present              Dissertation Research                      University of Chicago
  - 1) *Advisor: Donald H. Levy, Dept. of Chemistry (7/97-present)*
    - Gas phase photodynamics of the chromophore of the photoactive yellow protein
    - Photoisomerization of the epidermal chromophore urocanic acid in a supersonic expansion
    - Laser desorption techniques to study large biological molecules in the gas phase
  - 2) *Advisor: Wouter D. Hoff, Dept. of Biochemistry and Molecular Biology (12/01-present)*  
*Funded by Burroughs-Wellcome Interfaces Fellowship*
    - Wavelength-dependent photophysics of the photoactive yellow protein in solution
- 8/96-5/97                Undergraduate research                      University of Virginia  
*Advisor: James A. Marshall, Dept. of Chemistry*
  - Regioselective addition of allyl indium reagents to aldehydes
- 5/96-7/96                Undergraduate research                      Clemson University  
*Advisor: R. Karl Dieter, Dept. of Chemistry*  
**NSF Summer Research Experience for Undergraduates**
  - Acylation of  $\alpha$ -aminocuprate reagents with acid chlorides
- 8/95-5/96                Undergraduate research                      University of Virginia  
*Advisor: Sidney Hecht, Dept. of Chemistry*
  - Studies of inhibition of HIV-1 integrase

## PUBLICATIONS

- Dieter, R.K., Sharma, R.R., and W. Ryan. "Acylation of  $\alpha$ -aminoalkylcuprate reagents with acid chlorides." *Tetrahedron Letters*, 38, 783 (1997)
- Ryan, W.L. and D.H. Levy. "Electronic Structure and Photoisomerization of trans-Urocanic Acid in a Supersonic Jet." *Journal of the American Chemical Society*, 123, 961-966 (2001)
- Ryan, W.L., Gordon, D.J., and D.H. Levy. "Gas Phase Photodynamics of the Photoactive Yellow Protein Chromophore trans-p-Coumaric Acid." *Journal of the American Chemical Society*, 124, 6194 (2002)
- Ryan, W.L., Levy, D.H., and W.D. Hoff. "Wavelength Dependent Photophysics of the Photoactive Yellow Protein." *In preparation*

## SCIENTIFIC AWARDS

- Burroughs-Wellcome Interfaces Fellowship to engage in interdisciplinary research between the physical and biological sciences – 12/2001 to present
- Graduate Assistance in Areas of National Need Fellowship- 7/2001 to 12/2001
- University of Chicago's Albert J. Cross Prize for Excellence in Research, Teaching, and Departmental Citizenship (5/2001)
- Women Chemists Committee Travel Award (11/2000)
- American Chemical Society Travel Award (10/2000)
- University of Chicago's Helen Sellie-Beretvas Female Graduate Student Award in Chemistry (5/2000)
- University of Virginia's Oscar Rodig Memorial Award in Chemistry- Alpha Chi Sigma (5/1997)

## CONFERENCE PRESENTATIONS

- **American Physical Society Meeting** - Indianapolis, IN March 2002 (contributed talk)  
"Gas Phase Photodynamics of the Photoactive Yellow Protein Chromophore *trans*-p-Coumaric Acid", W.L. Ryan
- **Biophysical Society Meeting**- San Francisco, CA February 2002 (poster) AND **Gordon Research Conference on Biological Molecules in the Gas Phase**- New London, CT June 2001 (poster)  
"Photodynamics of the Photoactive Yellow Protein Chromophore *trans*-p-Coumaric Acid in the Gas Phase," W.L. Ryan, D.J. Gordon, and D.H. Levy
- **Program for Math and Molecular Biology/Burroughs Wellcome Meeting**- Santa Fe, NM January 2002 (poster)  
"Learning About Protein Dynamics From Gas Phase Spectroscopy of Its Chromophore" , W.L. Ryan, D.H. Levy, and W.D. Hoff
- **American Physical Society Meeting**- Seattle, WA March 2001 (poster) AND **Biophysical Society Meeting**- Boston, MA February 2001 (poster)  
"Electronic Spectroscopy and Photoisomerization of the Epidermal Chromophore *trans*-Urocanic Acid in a Supersonic Jet," W.L. Ryan and D.H. Levy

## TEACHING EXPERIENCE

- Grader, Dept. of Chemistry, University of Chicago- Winter 2002  
Graduate Quantum Mechanics
- Teaching Assistant, Dept. of Chemistry, University of Chicago- 1997/98, Winters 2000 and 2001  
Honors General Chemistry, Physical Chemistry Laboratory
- Grader, Dept. of Chemistry, University of Virginia- 1996/97  
Undergraduate Physical Chemistry: Thermodynamics and Kinetics, Quantum Mechanics
- Teaching Assistant, Department of Chemistry, University of Virginia- 1995/96, 1996/97  
General Chemistry, Honors General Chemistry