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# Tran B. Nguyen

## *Curriculum Vitae*

Univ. of California, Irvine
Department of Chemistry
Email: tbn@uci.edu

**EDUCATION**

**Atmospheric Chemistry Ph.D. Student** **2007 - Present**
*University of California, Irvine*
385B Rowland Hall, Irvine, CA 92697
GPA: 3.920

**Bachelors of Science, Chemistry** - *Cum Laude* **2003 - 2007**
*University of Southern California*
University Park Campus, Los Angeles, CA 90089
Cum. GPA: 3.687 Major GPA: 3.857

**PROFESSIONAL EXPERIENCE**

**Atmospheric Research Technician** **Jan – Jun 2008**
*National Institute for Water and Air Research*
301 Evans Bay, Wellington, New Zealand
Principle Scientist: Dr. Keith Lassey
Email: k.lassey@niwa.co.nz
***Duties:*** *Measured trace greenhouse gasses with gas chromatography (GC); Maintenance of atmospheric air monitoring sites; Analysis of climate monitoring data for international intercomparison.*

**RESEARCH EXPERIENCE**

**Graduate Student Researcher**
**Nizkorodov Research Group** **Jun 2008 - Present**
*AirUCI Research Institute, UCI*
Mentor: Professor Sergey Nizkorodov
Email: nizkorod@uci.edu
***Projects:*** *Analyzing the composition of isoprene secondary organic aerosol (SOA) using high resolution mass spectrometry; Identifying photolysis products of isoprene SOA with GC-MS and chemical ionization mass spectrometry (CIMS); Designed and built a custom 5 cubic meter atmospheric chamber for photochemical aerosol generation; Mentoring and training undergraduate researchers in analytical and computational techniques.*

**Undergraduate Student Researcher**
**Prakash Research Group** **Jan 2006- May 2007**
*Loker Hydrocarbon Research Institute, USC*
Mentor: Professor G.K. Surya Prakash
Email: gprakash@usc.edu
***Projects:*** *Fabricating and testing direct methanol and direct formic acid fuel cells with a variety of novel metal catalyst mixtures, application techniques, surface area coverage, and liquid flow designs.*

**RESEARCH EXPERIENCE *(continued)***

**Space Sciences Center** **May 2006 – May 2007**
*Stauffer Hall of Science, USC*
Mentor: Professor C.Y. Robert Wu
Email: robertwu@usc.edu
***Projects:*** *Investigating the photoionization processes of solid nitrogen, the half-life of solid ammonia, and the extreme ultraviolet photolysis of model cosmic ices with fourier transform infrared mass spectrometry. Analyzing spectroscopic data and calculating physical quantities to be used in publications.*

**Thompson Research Group** **May – Sept. 2005**
*Laird J. Stabler Laboratories, USC*
Mentor: Professor Mark E. Thompson
Email: met@usc.edu
***Project:*** *Constructing organic photovoltaic (OPV) cells by vacuum depositing ultrathin films of organic semiconductor material. Testing and optimizing OPVs. Analyzing surface morphology of films with atomic force microscopy (AFM).*

**PUBLICATIONS**

**T.B. Nguyen**, A.P. Bateman, D.L. Bones, J. Laskin, A. Laskin, and S.A. Nizkorodov "High-Resolution Mass Spectroscopic Analysis of SOA Generated from the Dark Ozonolysis of Isoprene," *Manuscript* 2009

**C.Y.R. Wu**, T.B. Nguyen, D.L. Judge, H.C. Lu, H.K. Chen, and B.M. Cheng, "Destruction Yields and Half-Lives of $NH_3$ in Various Mixed Cosmic Ice Systems by EUV Photolysis," *Advances in Geosciences* 2006

**PRESENTATIONS**

**AGU-Joint Assembly (Oral Presentation) May 2009**
T.B. Nguyen, A.P. Bateman, J. Laskin, L. Laskin, and S.A. Nizkorodov
Abstract A08.947: Composition of SOA Generated from the Dark Ozonolysis of Isoprene – A High Resolution Mass Spectroscopic Analysis

**AAS-Division of Planetary Sciences (Poster Presentation) Aug. 2006**
T.B. Nguyen, C.Y.R Wu, and D.L Judge
Poster 62.09: EUV-VUV Photolysis of Several Cosmic Ice Systems

**AWARDS AND HONORS**

**UCI Department of Chemistry, 2009**
*Outstanding Contribution to Teaching from a First Year Student*
**National Science Foundation, 2009**
*Graduate Student Fellowship Honorable Mention*
**U.S. Department of Education, 2008**
*Graduate Assistance in Areas of National Need (GAANN) Fellowship*
**National Science Foundation, 2006**
*Research Experience for Undergraduates (REU) Grant*
**Women in Science and Engineering, 2005**
*Undergraduate Research Grant*
**University of Southern California, 2003-2007**
*Undergraduate Leadership Scholarship*