

# Curriculum Vitae: Dr. Jaimie L. Gosselin

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## Professional Preparation:

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|------------------|--------------------|-----|------|
| Brown University | Physical Chemistry | PhD | 2006 |
| Clark University | Chemistry          | BA  | 2000 |

## Professional Appointment:

Adjunct Associate Professor of Chemistry, Providence College

## Research Experience:

Resonance enhanced multi photon ionization photoelectron spectroscopy  
Ultrafast dynamics in molecular systems  
Femtosecond laser spectroscopy  
Investigations of superexcited states  
Chemical dynamics of Rydberg states  
Time-resolved mass spectrometry  
Nuclear Magnetic Resonance

## Teaching Experience:

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| 2006-present     | Adjunct Associate Professor of Chemistry,<br>Providence College:<br>Contemporary Chemistry 105 (Environmental)<br>Introduction to Chemistry Laboratory 101<br>Introduction to Chemistry Laboratory 102          |
| 2001-2005        | Teaching Assistant, Brown University:<br>Introduction to Chemistry 10, non-credit online course                                                                                                                 |
| 2001-2005        | Web design and content implementation, Brown University<br>Introduction to Chemistry 10, non-credit online course                                                                                               |
| Semester II 2000 | Teaching Assistant, Brown University:<br>Organic Chemistry 35                                                                                                                                                   |
| 1996-present     | Instructor, Massachusetts Emergency Care Training<br>Academy, Inc (MECTA):<br>Emergency Medical Technician (EMT)<br>First Aid<br>Automated External Defibrillation (AED)<br>Cardiopulmonary Resuscitation (CPR) |

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## Professional Affiliation:

American Chemical Society

## Submitted Abstract for Future Conference Presentations:

Gosselin, Jaimie L. “*Facing the truth about global climate change; Professors don’t have all the answers.*” Abstracts of Papers, ACS 239<sup>th</sup> National Meeting, San Francisco, CA, United States, March 21-25 (2010).

## Conference Presentations:

Gosselin, Jaimie L.; Minitti, Michael P.; Weber, Peter M; “*Ultrafast Dynamics Of N,N-Dimethyl-Isopropyl Amine*” Abstracts of Papers, Pacifichem 2005 Honolulu, Hawaii, December 15-20 (2005).

Kuthirummal, Narayanan; Gosselin, Jaimie L.; Weber, Peter M. *Rydberg fingerprint spectra of monocyclic and bicyclic molecules.* Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United States, March 23-27 (2003).

Cheng, Wei; Dudek, Ray C.; Evans, Conor L.; Gosselin, Jaimie L.; Weber, Peter M. *Two-photon ionization photoelectron spectroscopy of 1,3-cyclohexadiene via the ultrashort-lived  $^1B_2$  state.* Abstracts of Papers, 221<sup>st</sup> ACS National Meeting, San Diego, CA, United States - April 1-5 (2001), 221st PHYS-224.

## Other Presentations:

Brown University, Departmental Seminar. December 2005  
“Probing Structure and Dynamics via Rydberg Fingerprint Spectroscopy.”

Brown University, Departmental Seminar. October 2004  
“Structural Sensitivity of Rydberg States.”

Brown University, Departmental Seminar. March 2003  
“Rydberg Fingerprint Spectra.”

Brown University, Departmental Seminar. May 2002  
“Superexcited States: Photoelectron and Photoelectron-Photoion Coincidence Studies.”

### Publications:

Gosselin, Jaimie L.; Minitti, Michael P.; Rudakov, Fedor; Sølling, Theis I., Weber, Peter M.; “*Energy flow and fragmentation dynamics of N,N – Dimethylisopropyl amine,*” **Journal of Physical Chemistry A.**, 110, 4251 (2006).

Minitti, Michael P.; Gosselin, Jaimie L.; Sølling, Theis I.; Weber, Peter M.; “*The ultrafast photofragmentation pathway of N,N-Dimethylisopropylamine*” **Femtochemistry VII precedings**, Elsevier Publications (2006).

Gosselin, Jaimie L.; Weber, Peter M.; *Rydberg fingerprint spectroscopy: A new spectroscopic tool with local and global structural sensitivity.* **Journal of Physical Chemistry A.** (2005) 109 (22): 4899-4904.

Weinkauff, Rainer; Cheng, Wei; Kuthirummal, Narayanan; Gosselin, Jaimie; Weber, Peter M.; *Local Ionization and charge transfer in the bifunctional molecule 2-phenyl-N,N-dimethylamine: A femtosecond photoelectron Study.* **Journal of Physical Chemistry A.** (2005) 109 (9): 1920-1925.

Wang, Yingzi; Meresi, Ghirmai; Gosselin, Jaimie; Azar, David; Wen, Wen-Yang; Jones, Alan A.; Inglefield, Paul T.; *Diffusion of Decafluoropentane in Amorphous Glassy Perfluorodioxole Copolymer by Pulse Field Gradient NMR Spectroscopy.* **Macromolecules** (2001), 34(19) 6680-6683.

Giotto, Marcus; Azar, David; Gosselin, Jaimie; Inglefield, Paul T.; Jones, Alan A.; *An NMR study of mobility in a crystalline side-chain comblike polymer.* **Journal of Polymer Science, Part B: Polymer Physics** (2001), 39(13).

Meresi, Ghirmai; Wang, Yingzi; Cardoza, Job; Wen, Wen Yang; Jones, Alan A.; Gosselin, Jaimie; Azar, David; Inglefield, Paul T. *Pulse Field Gradient NMR Study of Diffusion of Pentane in Amorphous Glassy Perfluorodioxole.* **Macromolecules** (2001), 34(14), 4852-4856.

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### Abstracts of Papers: \*

Minitti, Michael P.; Gosselin, Jaimie L.; Cardoza, Job D.; Weber, Peter M; “*Molecular Structure and Dynamics as Seen Through Rydberg States*” Abstracts of Papers, Ultrafast Photoelectron Spectroscopy Laser Science 2005 meeting of the American Physical Society, Division of Laser Sciences, in conjunction with the Frontiers in Optics Annual meeting of the Optical Society of America. Tucson, Arizona, October 16-20, 2005.

Minitti, Michael P.; Gosselin, Jaimie L.; Weber, Peter M; “*Ultrafast dynamics in Rydberg states of tertiary amines*”, Abstracts of Papers, Femtochemistry VII, Washington D.C. July 17-22, 2005.

Gosselin, Jaimie L.; Minitti, Michael P.; Weber, Peter M; “*Ultrafast Dynamics in Rydberg States of Aliphatic Amines*”, Abstracts of Papers, 60<sup>th</sup> annual Ohio State University International Symposium on Molecular Spectroscopy, Columbus, Ohio. June 21<sup>st</sup> 2005.

Cheng, Wei; Kuthirummal, Narayanan; Gosselin, Jaimie; Nie, Weiyan; and Weber, Peter M. *Ultrafast ionization-induced charge transfer in 2-phenylethyl-N,N-dimethylamin*. Abstracts of Papers, 227<sup>th</sup> ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004.

Peter M. Weber, Narayanan Kuthirummal, Wei Cheng, Jaimie Gosselin. *Molecular structure and dynamics observed by ultrafast photoionization via Rydberg states*. Abstracts of Papers, 227<sup>th</sup> ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004.

Kuthirummal, Narayanan; Gosselin, Jaimie L.; Weber, Peter M. *Dynamics of Rydberg-excited 1,3-cyclohexadiene*. Abstracts of Papers, 225<sup>th</sup> ACS National Meeting, New Orleans, LA, United States, March 23-27, 2003 (2003).

Weber, Peter M.; Kuthirummal, Narayanan; Dudek, Ray C.; Evans, Conor L.; Cheng, Wei; Cardoza, Job D.; Gosselin, Jaimie L.. *Electron diffraction and photoelectron studies of the electrocyclic ring opening reaction of 1,3-cyclohexadiene*. Abstracts of Papers, 223<sup>rd</sup> ACS National Meeting, Orlando, FL, United States, April 7-11, 2002 (2002).

**\*Presentation by another member of research group.**