

CV/Resume
Joseph N. Mastron
Email: mastron@umich.edu

Education:

Ph.D, Physical Chemistry, *University of Chicago* 2019
M.S, Physical Chemistry, *University of Chicago* 2014
B.S, Chemistry, Summa Cum Laude, *University of Southern California* 2013
A.A, Chemistry, A.A, Physics, A.A, Mathematics, Highest Honors, *Cerritos College* 2011

Positions and Employment:

University of Michigan:

Postdoctoral Fellow, *Kubarych Group, LSA Department of Chemistry* 2019 – Present

University of Chicago:

Research Assistant, *Tokmakoff Group, Department of Chemistry, The James Franck Institute, and the Institute for Biophysical Dynamics* 2014 – 2019

Teaching Assistant, *General Chemistry 101,102,113* 2013 – 2014

University of Southern California:

Photography Lab Tech, *Roski School of Fine Arts* 2011 – 2013

Undergraduate Researcher, *Bradforth Group, College Department of Chemistry* 2011 – 2013

Undergraduate Intern Researcher, *Bradforth Group, College Department of Chemistry* 2010 – 2011

Cerritos College:

Student Tutor in Chemistry, *Associated Student Center* 2010 – 2011

Student Worker, *CTE Teacher TRAC Program* 2009 – 2011

Affiliations:

Academic:

American Chemical Society, Member 2011 – Present

Phi Theta Kappa Honor Society, Member 2009 – Present

Phi Beta Kappa Honor Society, Member 2013 – Present

University of Michigan:

UM Postdoctoral Association, Co-Chair of PR, Acting Chair of Ethics 2019 – Present

University of Chicago:

The Committee on Graduate Education, Member 2018 – 2019

Student Health Advisory Board, Member 2017 – 2019

Graduate Council

Chair of Marketing Operations 2017 – 2018

Ex Officio VP of Marketing 2018

Travel Fund Reviewer 2017 – 2019

University of Southern California:

USC Queer and Allied Student Assembly, Executive Board Member 2012 – 2013

Center for Energy Nanoscience, Undergraduate Member 2011 – 2013

Publications:

- Joseph N. Mastron, Andrei Tokmakoff. Fourier Transform Fluorescence-Encoded Infrared Spectroscopy. *J. Phys. Chem. A*, **2018**, 122 (2), pp 554-562
- Joseph N. Mastron, Andrei Tokmakoff. Two-Photon-Excited Fluorescence-Encoded Infrared Spectroscopy. *J. Phys. Chem. A*, **2016**, 120 (46), pp 9178-9187
- Joseph N. Mastron, Sean T. Roberts, R. Eric McAnally, Mark E. Thompson, and Stephen E. Bradforth. Aqueous Colloidal Acene Nanoparticles: A New Platform for Studying Singlet Fission. *J. Phys. Chem. B*, **2013**, 117 (49), pp 15519-15526
- Sean T. Roberts, R. Eric McAnally, Joseph N. Mastron, David H. Webber, Matthew T. Whited, Richard L. Brutchey, Mark E. Thompson, and Stephen E. Bradforth. Efficient Singlet Fission Discovered in a Disordered Acene Film. *J. Am. Chem. Soc.*, **2012**, 134 (14), pp 6388-6400
- Sean T. Roberts, Cody W. Schlenker, Vincent Barlier, R. Eric McAnally, Yuyuan Zhang, Joseph N. Mastron, Mark E. Thompson, and Stephen E. Bradforth. Observation of Triplet Exciton Formation in a Platinum-Sensitized Organic Photovoltaic Device. *J. Phys. Chem. Lett.*, **2011**, 2 (2), pp 48-54

Posters:

- Joseph N. Mastron, Andrei Tokmakoff. Fourier Transform Fluorescence-Encoded Infrared Spectroscopy. Poster presented at: *Time Resolved Vibrational Spectroscopy*, **June 16-21, 2017**, Cambridge, UK.
- Joseph N. Mastron, Andrei Tokmakoff. 2-Photon-Excited Fluorescence-Detection of IR absorption. Poster presented at: *Time Resolved Vibrational Spectroscopy*, **June 21-26, 2015**, Madison, WI, USA.
- J. N. Mastron, S. T. Roberts, C. W. Schlenker, V. Barlier, R. E. McAnally, Y. Zhang, M. E. Thompson, S. E. Bradforth. Global analysis of transient absorption spectra of a triplet sensitized organic photovoltaic. Poster presented at: *241st ACS National Meeting & Exposition*, **March 27-31, 2011**, Anaheim, CA, USA.

Awards and Honors:

- Academic Excellent Award in Chemistry, Cerritos College 2010
- JPLUS Scholar Award 2010
- Rose Hills Foundation Summer Research Grant 2012
- Rose Hills Scholarship 2012 - 2013
- NSF Graduate Research Fellowship Program, Honorable Mention 2015
- University of Chicago Graduate Council Travel Fund Grant 2017

Proficiencies:

Fluent in English, Novice Conversational Japanese, Proficiency in Windows, Mac, Linux, Microsoft Office Suite, Adobe Creative Suite, Python, Matlab, Mathematica, Labview, Facebook, Twitter, Tweetdeck