

Jenna Leigh Logsdon

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EDUCATION

Northwestern University, Ph.D. in Chemistry **2019** (expected)
University of Tampa, B.S. in Chemistry and Biology **2014**

RESEARCH EXPERIENCE

2014 -Present Ph.D. Candidate, Northwestern University
Advisor: Prof. Michael R. Wasielewski

- Design and synthesize model compounds for understanding charge transfer dynamics in organic photovoltaics via femtosecond transient absorption spectroscopy

2013 -2014 Research Student, University of Tampa
Advisor: Prof. John Struss

- Research on the kinetics of acid catalyzed ester interconversions to produce biodiesel fuels, using NMR spectroscopy.

2013 NSF REU Student, Florida International University
Advisor: Prof. Kevin O'Shea

- Research on the kinetics of singlet oxygen degradation of urocanic acid, a metabolite of histidine, using NMR spectroscopy.

FELLOWSHIPS AND AWARDS

2015-Present National Science Foundation Graduate Research Fellowship
2016-2017 Materials Research and Science Engineering Center Outreach Grant

- Grant supports teaching scientific concepts to elementary school students

2010-2014 University of Tampa Presidential Leadership Scholarship
2014 NSF REU Chemistry Leadership Group Travel Award

VOLUNTEERING AND OUTREACH

2015-Present Science in the Classroom Volunteer Team Leader

- Monthly science outreach program for local elementary school students

2014-Present Chicago Council on Science and Technology Volunteer

- Help organize and run outreach programs in various STEM fields

2014-Present Volunteer at the Evanston Animal Shelter
2017 Volunteer at Expand Your Horizons

- A program designed to encourage middle school girls to join a STEM field

2017 Ready Set Go at Northwestern University

- Class to develop science presentation skills for a general audience

LEADERSHIP EXPERIENCE

- 2017-Present** Phi Lambda Upsilon, President
- Develop programs to improve the graduate school experience through, outreach, professional development, and departmental socialization
- 2016-2017** Phi Lambda Upsilon, Service Chair
- Organized lessons and coordinated volunteers for monthly science lessons at local elementary school.
 - Organized a chemistry show for 250 elementary school students brought to Northwestern University
- 2015** CHEMUnity Mentor
- Helped incoming graduate students adjust to the Ph.D. program

HONORS AND DISTINCTIONS

- 2014** University of Tampa Outstanding Chemistry Student
2010-2013 University of Tampa Dean's List

PROFESSIONAL SOCIETY MEMBERSHIPS

- 2016-Present** Phi Lambda Upsilon
- National Chemistry Honors Society
- 2013-Present** American Chemical Society

TEACHING EXPERIENCE

- 2014-2015** Organic Chemistry Lab Teaching Assistant at Northwestern University
2012-2014 Tutor at University of Tampa Student Academic Services
2012-2014 Organic Chemistry Lab Teaching Assistant at University of Tampa

PUBLICATIONS

7. Eastham, N.D.; **Logsdon, J.L.**; Manley, E.F.; Aldrich, T.J.; Leonardi, M.J.; Wang, G.; Powers-Riggs, N.E.; Young, R.M.; Chen, L.X.; Wasielewski, M.R.; Melkonyan, F.S.; Chang, R.P.H.; Marks, T.J. "Hole-Transfer Dependence on Blend Morphology and Energy Level Alignment in Polymer:ITIC Photovoltaic Materials." *Adv. Mater.*, **2017**, *Just Accepted*.
6. Goswami, S.; Miller, C.E.; **Logsdon, J.L.**; Buru, C.T.; Wu, Y.L.; Bowman, D.N.; Islamoglu, T.; Asiri, A.M.; Cramer, C.J.; Wasielewski, M.R.; Hupp, J.T.; Farha, O.K. "Atomistic Approach toward Selective Photocatalytic Oxidation of a Mustard-Gas Simulant: A Case Study with Heavy-Chalcogen-Containing PCN-57 Analogues." *ACS Appl. Mater. Interfaces*, **2017**, *9*, 19535-19540.

5. **Logsdon, J.L.**; Hartnett, P.H.; Nelson, J.N.; Harris, M.A.; Marks, T.J.; Wasielewski, M.R. "Charge Separation Mechanisms in Ordered Films of Self-Assembled Donor-Acceptor Dyad Ribbons." *ACS Appl. Mater. Interfaces*, **2017**, *9*, 33493-33503.
4. Cao, D.H.; Stoumpos, C.; Yokoyama, T.; **Logsdon, J.L.**; Song, T.B.; Farha, O.K.; Wasielewski, M.R.; Hupp, J.T.; Kanatzidis, M.G. "Thin Films and Solar Cells Based on Semiconducting Two-Dimensional Ruddlesden-Popper $(\text{CH}_3(\text{CH}_2)_3\text{NH}_3)_2(\text{CH}_3\text{NH}_3)_{n-1}\text{Sn}_n\text{I}_{3n+1}$ Perovskites" *ACS Energy Lett.*, **2017**, *2*, 982-990.
3. Song, T.B.; Yokoyama, T.; Stoumpos, C.C.; **Logsdon, J.L.**; Cao, D.H.; Wasielewski, M.R.; Aramaki, S.; Kanatzidis, M.G. "Importance of Reducing Vapor Atmosphere in the Fabrication of Tin-Based Perovskite Solar Cells." *J. Am. Chem. Soc.*, **2017**, *139*, 836-842.
2. **Logsdon, J.L.***; Margulies, E.A.*; Miller, C.E.; Ma, L.; Simonoff, E.; Young, R.M.; Schatz, G.C.; Wasielewski, M.R. "Direct Observation of a Charge-Transfer State Preceding High-Yield Singlet Fission in Terrylenediimide Thin Films." *J. Am. Chem. Soc.*, **2016**, *139*, 663-671. (*designates equal contribution)
1. Weijun, K.; Stoumpos, C.C.; **Logsdon, J.L.**; Wasielewski, M.R.; Yan, Y.; Fang, G.; Kanatzidis, M.G. "TiO₂-ZnS Cascade Electron Transport Layer for Efficient Formamidinium Tin Iodide Perovskite Solar Cells." *J. Am. Chem. Soc.*, **2016**, *138*, 14998-15003.

CONFERENCE PRESENTATIONS

3. **Logsdon, J.L.**; Hartnett, P.E.; Nelson, J.N.; Harris, M.A.; Wasielewski, M.R. "Investigating the Charge Separation Mechanism of Self-Assembled Electron Donor-Acceptor Molecules." Electron Donor-Acceptor Interactions Gordon Research Conference, Newport, RI, August 9, 2016. **Poster Presentation.**
2. **Logsdon, J.L.**; Hartnett, P.E.; Nelson, J.N.; Harris, M.A.; Wasielewski, M.R. "Investigating the Charge Separation Mechanism of Self-Assembled Electron Donor-Acceptor Molecules." Electron Donor-Acceptor Interactions Gordon Research Seminar, Newport, RI, August 6, 2016. **Oral Presentation.**
1. **Logsdon, J.L.**; Kim, D.; O'Shea, K.E.; "Photooxidation of Urocanic Acid." 247th American Chemical Society National Meeting, Dallas, TX, March 18, 2014. **Poster Presentation.**