

Education History

California Institute of Technology
Pasadena, CA

PhD in Chemistry
2014 – 2022

Adviser: Professor Ryan G. Hadt

University of Rochester
Rochester, NY

BS in Chemistry
2010 – 2014

Adviser: Professor Daniel J. Weix

Employment History

September 2014 – June 2020 Teaching Assistant for the Chemistry Department at the California Institute of Technology

August 2011 – May 2014 Teaching Assistant for the Chemistry Department at the University of Rochester

May 2011 – November 2011 Technical Assistant for Professor Lynne Maquat, Department of Biochemistry and Biophysics, University of Rochester

Teaching Assistant Experience

California Institute of Technology

Ch 153c – Advanced Inorganic Chemistry, Spring 2020
Ch 112 – Inorganic Chemistry, Fall 2016
Ch 102 – Introduction to Inorganic Chemistry, Spring 2016
Ch 4a,b – Synthesis and Analysis of Organic and Inorganic Compounds, Winter and Spring 2015
Ch 8 – Experimental Procedures of Synthetic Chemistry for Premedical Students, Fall 2014

University of Rochester

CHM 204 – Organic Chemistry II, Spring 2013, 2014
CHM 203 – Organic Chemistry I, Fall 2012, Fall 2013
CHM 132 Lab – Chemical Concepts, Systems, Practice II Lab, Spring 2013
CHM 211 – Inorganic Chemistry I, Fall 2012
CHM 172Q – Freshman Organic Chemistry, Spring 2012
CHM 171Q – Freshman Organic Chemistry, Fall 2011

Publications

1. Ribson, R. D.; Choi, G.; Hadt, R. G.; Agapie, T. "Controlling Singlet Fission with Coordination Chemistry-Induced Assembly of Dipyridyl Pyrrole Bipentacenes", *ACS Cent. Sci.* **2020**, 6, 2088 – 2096.
2. Follmer, A. H.†; Ribson, R. D.†; Oyala, P. H.; Chen, G. Y.; Hadt, R. G. "Understanding Covalent versus Spin-Orbit Coupling Contributions to Temperature Dependent Electron Spin Relaxation in Cupric and Vanadyl Phthalocyanines", *J. Phys. Chem. A.* **2020**, 124, 9252 – 9260. †Co-first authors.
3. Stroscio, G. D.; Ribson, R. D.; Hadt, R. G. "Quantifying Entatic States in Photophysical Processes: Applications to Copper Photosensitizers", *Inorg. Chem.* **2019**, 58, 16800-16817.
4. Wotal A. C., Ribson, R. D., and Weix. D. J. "Stoichiometric Reactions of Acynickel(II) Complexes with Electrophiles and the Catalytic Synthesis of Ketones", *Organometallics*. **2014**, 33, 5874 – 5881.

Presentations

- "Influencing Singlet Fission via Coordination Chemistry in Dipyridyl Pyrrole Bipentacenes" - ACS National Meeting Spring 2021, Virtual (oral)
 - Physical Division Symposium: Singlet Fission Materials and Mechanisms for Solar Energy Conversion
- "Controlling Singlet Fission with Coordination Chemistry" – Division of Chemistry and Chemical Engineering, Caltech Seminar Day, Pasadena, CA 2020 (oral)

Honors & Awards

- National Science Foundation Graduate Research Fellowship Honorable Mention (2014, 2015, 2016)
- University of Rochester:
 - Graduated *cum laude* with highest distinction
 - Phi Beta Kappa honor society member
 - Carl A. Whiteman, Jr. Teaching Award (2014)
 - ACS Undergraduate Organic Chemistry Award (2014)
 - Merck Index Award (2011)