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## Education

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### **University of Michigan**

Ph.D. (chemistry) *May 2020*  
GPA = 4.00/4.00

Advisors: Dr. habil. Nicolai Lehnert and Dr. Stephen Maldonado

Thesis: *Molecular Materials for Electrochemical Energy Conversion and Storage*

### **University of Michigan**

M.S. (chemistry) *April 2017*  
Advisors: Dr. habil. Nicolai Lehnert and Dr. Stephen Maldonado

### **Oberlin College**

Bachelor of Arts in chemistry with honors received in *May 2013*  
GPA = 3.70/4.00

Advisor: Dr. Jesse Rowsell

Thesis: *Progress Toward the Synthesis of New Organosulfonate Complexes from the Commodity Chemical H-Acid for the Assembly of Microporous Frameworks*

## Publications

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Total citations = 367    First author citations = 51    --used Google Scholar on December 23, 2025

\*\*Undergraduate co-authors are underlined.

Mlynksi, N., Petroff, A., Werner, H., and **MacInnes, M. M.**\* “Low temperature crystallization of amorphous silica in alkali chloride melts.” *To be submitted to Chemistry of Materials* by February 2026.

Marshall-Roth, T.; **MacInnes, M. M.**; Jordan, A. M.; Piedmonte, I. D.; Pace, K. A.; Adelman, S. L.; Anderson, N. H.; Cooley, J. C.; Kozimor, S. A.; Mullis, M. S.; Mocko, V.; Rocha, F. R.; Stein, B. W. “Quantifying Outer- and Inner-Coordination Sphere Effects Using Uranium Redox Chemistry in Molten Salt Solutions.” *Submitted to J. Am. Chem. Soc.*

Kauffman, M., Graham, A. M.; Jing, D.; and **MacInnes, M. M.**\* “Elucidating aqueous cerium(IV) adsorption dynamics on tin oxide surfaces using electrochemistry.” *ACS Electrochemistry*, 2025, <https://doi.org/10.1021/acsselectrochem.5c00422>

Shaw, T. E. IV; Jones, Z. R.; Adelman, S. L.; Anderson, N. H.; Bowes, E. G.; Bauer, E. D.; Dan, D.; Knope, K. E.; Kozimor, S. A.; **MacInnes, M. M.**; Mocko, V.; Rocha, F. R.; Root, H. D.; Stein, B. W.; Thompson, J. D.; Wacker, J. N. “PuCl<sub>3</sub>{CoCp[OP(OEt)<sub>2</sub>]<sub>3</sub>}<sub>3</sub>: Transuranic Elements Entering the Field of Heterometallic Molecular Chemistry,” *Chemical Science*, 2024, 15, 12754-12764, <https://doi.org/10.1039/D4SC01767F>

Livshits, M. Y.; Wolford, N. J.; Bahn, J. K.; **MacInnes, M. M.**; Greer, S. M.; Vellore Winfred, J. S. R.; Hanson, K.; Gompa, T. P.; Stein, B. W. “Exploring Differences in Lanthanide Excited State Reactivity Using a Simple Example: The Photophysics of La and Ce

Thenoyltrifluoroacetone (TTA) Complexes.” *Inorganic Chemistry*, **2023**, 62, 13712-13721, <https://doi.org/10.1021/acs.inorgchem.3c00717>

DiMucci, I. M.; Root, H. D.; Jones, Z. R.; Kozimor, S. A.; **MacInnes, M. M.**; Miller, J. L.; Mocko, V.; Oldham, W. J.; and Stein, B. W. “Photochemical Separation of Plutonium from Uranium.” *Chemical Communications*, **2022**, 58, 10961-10964, <https://doi.org/10.1039/D2CC04225H>

Hazelnis, J. P.; Sartori, A.; Cheek, Q. B.; Giri, R. P.; **MacInnes, M. M.**; Murphy, B. M.; Magnussen, O. M.; and Maldonado, S. “Detection of Ge-Containing Adlayers at the Liquid Hg/Water Interface by In Situ X-Ray Reflectivity in Aqueous Borate Electrolytes Containing Dissolved  $\text{GeO}_2$ .” *Journal of Physical Chemistry C*, **2022**, 126, 8177-8189, <https://doi.org/10.1021/acs.jpcc.2c01671>

**MacInnes, M. M.**; Jones, Z. R.; Anderson, N. H.; Eiroa-Lledo, C.; Knope, K. E.; Livshits, M. Y.; Kozimor, S. A.; Mocko, V.; Rocha, F. R.; Stein, B. W.; and Wacker, J. N. “Using Molten Salts to Probe Outer-Coordination Sphere Effects on Lanthanide(III/II) Electron-Transfer Reactions,” *Dalton Transactions*, **2021**, DOI: 10.1039/d1dt02708e, <https://doi.org/10.1039/D1DT02708E>

Lancaster, M.; Mow, R.; Liu, J.; Cheek, Q.; **MacInnes, M. M.**; Al-Jassim, M.; Deutsch, T.; Young, J.; Maldonado, S. “Protection of  $\text{GaInP}_2$  Photocathodes by Direct Photoelectrodeposition of  $\text{MoS}_x$  Thin Films.” *ACS Applied Materials and Interfaces*, **2019**, 11, 25115-25122, <https://doi.org/10.1021/acsami.9b03742>

**MacInnes, M. M.**; Cousineau, B. R.; Youngs, S. M.; Sinniah, K.; Reczek, J. J.; Maldonado, S. “Discovery of Unusually Stable Reduced Viologen via Synergistic Folding and Encapsulation” *Journal of the Electrochemical Society* **2019**, 166, H825-H834, DOI 10.1149/2.0711915jes

Hlynchuk, S.; **MacInnes, M. M.**; and Maldonado, S. “Sensitization of p-GaP by physisorbed triarylmethane dyes.” *Journal of Physical Chemistry C*, **2018**, 122, 20073-20082, <https://doi.org/10.1021/acs.jpcc.8b05136>

**MacInnes, M. M.**; Hlynchuk, S.; Acharya, S.; Lehnert, N.; Maldonado, S., “Reduction of graphene oxide thin films by cobaltocene and decamethylcobaltocene.” *ACS Applied Materials and Interfaces*, **2018**, 10, 2004-2015, <https://doi.org/10.1021/acsami.7b15599>

Eady, S. C.; **MacInnes, M. M.**; Lehnert, N. “Immobilized Co-bis(benzenedithiolate) complexes: exceptionally active heterogeneous electrocatalysts for dihydrogen production from mildly acidic aqueous solutions.” *Inorganic Chemistry*, **2017**, 56, 11654-11667, <https://doi.org/10.1021/acs.inorgchem.7b01589>

Eady, S. C.; **MacInnes, M. M.**; Lehnert, N. “A smorgasbord of carbon: electrochemical analysis of cobalt-bis(benzenedithiolate) complex adsorption and electrocatalytic activity on diverse graphitic supports.” *ACS Applied Materials and Interfaces*, **2016**, 8, 23624-23634, <https://doi.org/10.1021/acsami.6b05159>

Olson, A. C.; Keith, J. M.; Batista, E. R.; Boland, K. S.; Daly, S. R.; Kozimor, S. A.; **MacInnes, M. M.**; Martin, R. L.; Scott, B. L. “Using solution- and solid-state S K-edge X-ray absorption spectroscopy with density functional theory to evaluate M-S bonding for  $\text{MS}^{2-}$  (M=Cr, Mo, W) dianions.” *Dalton Transactions*, **2014**, 43, 17283-17295, <https://doi.org/10.1039/C4DT02302A>

Boland, K. S.; Hobart, D. E.; Kozimor, S. A.; **MacInnes, M. M.**; Scott, B.L. "The coordination chemistry of trivalent lanthanides (Ce, Nd, Sm, Eu, Gd, Dy, Yb) with diphenyldithiophosphinate anions." *Polyhedron*, **2014**, 67, 540-548, <https://doi.org/10.1016/j.poly.2013.09.019>

Spencer, L. P.; Yang, P.; Minasian, S. G.; Jilek, Robert E.; Batista, E. R.; Boland, K. S.; Boncella, J. M.; Conradson, S.D.; Clark, D.L.; Hayton, T.W.; Kozimor, S.A.; Martin, R.L.; **MacInnes, M. M.**; Olson, A.C.; Scott, B.L.; Shuh, D.K.; Wilkerson, M.P. "Tetrahalide Complexes of the  $[U(NR_2)]^{2+}$ : Synthesis, Theory, and Chlorine K-Edge X-ray Spectroscopy." *Journal of the American Chemical Society*, **2013**, 135, 2279, <https://doi.org/10.1021/ja310575j>

Daly, S. R.; Klaehn, J. R.; Boland, K. S.; Kozimor, S. A.; **MacInnes, M. M.**; Peterman, D. R.; Scott, B. L. "NMR Spectroscopy and Spectral Characterization of Dithiophosphinate Ligands Relevant to Minor Actinide Extraction Processes." *Dalton Transactions*, **2012**, 41, 2163, <https://doi.org/10.1039/C1DT11637A>

### **Professional Experience**

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Visiting Scientist at Los Alamos National Laboratory *August 2025 – August 2026*

- Temporary appointment during sabbatical leave
- Collaborated with Inorganic Isotopes and Actinides group (C-IIAC) to explore aqueous uranium and uranyl adsorption chemistries

Assistant Professor of Chemistry at Grinnell College *August 2022 – present*

- Tenure track
- Courses: Instrumental Analysis lecture and lab (CHM 358), Inorganic and Analytical Chemistry lecture and lab (CHM 210 – prior to fall 2023), Analytical Chemistry lecture and lab (CHM 210 – fall 2023 and later), General Chemistry lab (CHM 129L)
- Mentored 8 research students (CHM/BCM 499, 399, 299, 297) to date

Postdoctoral researcher at Los Alamos National Laboratory *June 2020 – June 2022*

- Electrochemical analysis of lanthanide and actinide ions in molten salt and aqueous matrices
- Radiochemistry and actinide separations experience

University of Michigan graduate student *Sept. 2015 – May 2020*

- Electrochemistry and photoelectrocatalysis, specifically proton reduction using gallium phosphide and silicon as semiconductor electrodes and molecular cobalt catalysts.
- Carbon surfaces, esp. reduced graphene oxide and graphene oxide synthesis, characterization, and functionalization.
- Electrochemical and spectroscopic characterization of host-guest interactions
- Maintained and operated an x-ray photoelectron spectrometer
- Mentored four undergraduate students and four 1<sup>st</sup> year graduate students on their research projects, several of which were unrelated to my own research:
  - o Quantum dot sensitization of GaP photocathodes
  - o Ferrocene-based materials for aqueous redox flow batteries
  - o Benchtop perovskite solar cell synthesis design for use in undergraduate laboratory class

Graduate Student Instructor at University of Michigan *Sept. 2015 – May 2017*

- Taught general chemistry and organic chemistry recitation and laboratory classes.
  - o Developed lesson plans, worksheets, quizzes, and exams.
  - o Graded quizzes, exams, and laboratory reports.

Substitute Chemistry Instructor at Interlochen Arts Academy	<i>Aug. 2014 – Dec. 2014</i>
<ul style="list-style-type: none"> <li>- Taught 10<sup>th</sup>-12<sup>th</sup> grade chemistry, including AP chemistry. <ul style="list-style-type: none"> <li>o Developed lesson plans, homework, quizzes, exams, and laboratory experiments.</li> <li>o Graded homework, quizzes, exams, and laboratory reports.</li> <li>o Conducted parent-teacher conferences.</li> </ul> </li> </ul>	
DAAD RISEpro intern with BASF SE in Ludwigshafen, Germany	<i>July 2013 – Dec. 2013</i>
<ul style="list-style-type: none"> <li>- Organic synthetic chemistry research for organic photovoltaics, specifically hole transport materials</li> <li>- Presented findings in German to department</li> </ul>	
Senior undergraduate honors project in chemistry	<i>Sept. 2012 – May 2013</i>
<ul style="list-style-type: none"> <li>- Yearlong laboratory research project concluding with a written thesis, presentation, and defense.</li> <li>- Research involved synthetic inorganic chemistry probing four-coordinate boron centers</li> </ul>	
SULI Fellowship intern at Los Alamos National Laboratory	<i>Summer 2011 and Summer 2012</i>
<ul style="list-style-type: none"> <li>- Worked under Dr. Stosh Kozimor in the Chemistry Division</li> <li>- Two consecutive summer internships involving inorganic synthesis of lanthanide and uranyl coordination compounds.</li> <li>- Trained in air-sensitive and nuclear chemistry</li> </ul>	
Teaching assistant for chemistry laboratory class at Oberlin College	<i>Feb. 2011 – May 2011</i>
<ul style="list-style-type: none"> <li>- Graded lab reports, prepped labs, monitored and helped students during class.</li> </ul>	
Private and group chemistry tutor at Oberlin College	<i>2011 – 2013</i>
<b><u>Grant/Fellowship Applications</u></b>	
NSF LEAPS-MPS grant	<i>Awarded August 2025</i>
<ul style="list-style-type: none"> <li>- CHE-2532882 – “LEAPS-MPS: Electrochemical characterization of ion adsorption at solid-liquid interfaces”</li> <li>- Lead PI</li> <li>- \$225,961 over 2 years (9/1/25 – 8/31/27)</li> </ul>	
Harris Faculty Fellowship	<i>Awarded May 2025</i>
<ul style="list-style-type: none"> <li>- “Electrochemical characterization of ion adsorption at solid-liquid interfaces”</li> <li>- Lead PI</li> <li>- \$8000 and one extra semester of 100% pay pre-tenure sabbatical</li> </ul>	
NSF MRI pre-proposal	<i>Submitted August 2024</i>
<ul style="list-style-type: none"> <li>- “Acquisition of a State-of-the-art X-ray Photoelectron Spectroscopy System”</li> <li>- Submitted by Iowa State University Materials Analysis Research Laboratory</li> <li>- I submitted supporting material as a user of the instrument</li> </ul>	
NSF LEAPS-MPS grant	<i>Unsuccessful July 2024</i>
<ul style="list-style-type: none"> <li>- “LEAPS-MPS: Electrochemical characterization of ion adsorption at solid-liquid interfaces”</li> <li>- Lead PI</li> <li>- \$221,536.70 over 2 years</li> <li>- Award number 2419025</li> </ul>	
Electrochemical Society Conference Travel Grant	<i>Awarded August 2023</i>
<ul style="list-style-type: none"> <li>- \$500</li> <li>- Talk titled “Cerium ion adsorption to fluorine-doped tin oxide electrodes”</li> </ul>	

NSF LEAPS-MPS grant	<i>Unsuccessful July 2023</i>
<ul style="list-style-type: none"> <li>- “LEAPS-MPS: Electrochemical Sensing and Separations”</li> <li>- Lead PI</li> <li>- \$196,302 over 2 years</li> <li>- Award number 2316921</li> </ul>	
NSF MRI grant	<i>Awarded July 2022</i>
<ul style="list-style-type: none"> <li>- “MRI: Acquisition of a 500-MHz NMR Spectrometer for Chemistry and Materials Research”</li> <li>- NMR Spectrometer: \$399,990</li> <li>- Award number 2216273</li> </ul>	
Roy J. Carver Trust	<i>Awarded July 2022</i>
<ul style="list-style-type: none"> <li>- “Incorporation of Modern 400 MHz NMR Spectrometer into Grinnell College Chemistry and Biological Chemistry Curricula.”</li> <li>- \$200,000</li> </ul>	
Los Alamos National Laboratory LDRD-DR grant	<i>Awarded June 2021</i>
<ul style="list-style-type: none"> <li>- Laboratory Directed Research and Development – Direct Research</li> <li>- Co-author</li> <li>- \$1.5m over 3 years</li> </ul>	
NSF-GRFP Fellowship	<i>Awarded April 2017</i>
<ul style="list-style-type: none"> <li>- National Science Foundation Graduate Research Fellowship Program</li> <li>- \$138k over 3 years</li> </ul>	

### **Research Student Mentorship**

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Grinnell College (8 undergraduate mentees)

- Spring 2023: 1 student (new)
- Summer 2023: 3 students (all new)
- Fall 2023: 2 students (both continuing)
- Spring 2024: 4 students (2 new, 2 continuing)
- Summer 2024: 2 students (both new)
- Fall 2024: 4 students (all continuing)
- Spring 2025: 2 students (both continuing)

University of Michigan (as a graduate student) (6 mentees)

- 5 undergraduate students and 1 high school student (2016 – 2019)

### **Institutional Service**

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Departmental service

- Grinnell College Chemistry Department seminar series coordinator *AY 2024/25*
- Various hiring committees for visiting assistant professor positions *2024 – 2025*

Committees

- Grinnell College Eco-Campus Committee *AY 2024/25*
- Grinnell College Scholarship Selection Committee for the Barry M. Goldwater and the Churchill Fellowships *Fall 2023*
- Grinnell College Biochemistry Majors Committee (permanent member) *Sept. 2022 – present*

Participated in GSP (Grinnell Science Project) events

- GSP is a program to increase inclusivity and diversity within STEM in college students
- Panel on pathways in science *Oct. 2022*
- Winter reunion dinner *Jan. 2023*

## Academic advising

- 2023/24: 3 advisees
- 2024/25: 4 advisees
- 2024/25: 4 advisees

## **Other Service and Outreach**

### Market Science

*2024 – present*

- Brought STEM summer research students to Grinnell Farmers Market where they engaged market attendees in conversations about their science
- Developed training materials for students across disciplines
- Prepared poster and demonstrations to facilitate these conversations and engagement
- Helped students prepare to talk to a lay audience about high level scientific concepts
- The goals were to coach students in accessible and equitable science communication and to foster conversations with our broader community about our research.

### Community Garden caretaker (with Imagine Grinnell)

*Summers 2023, 2024*

- Planted and cared for a community garden in Grinnell, IA
- Gave excess harvests to the Grinnell College food pantry

### Letters to a Prescientist (LPS)

*2020-present*

- Wrote letters to middle school and elementary school students, talking about my science and their interests in science and other things
- The program serves lower income urban and rural schools

### Peer reviewer

*May 2018 – present*

- *Journal of the Electrochemical Society*
- *Inorganic Chemistry*
- ACS Petroleum Research Fund
- *Journal of Inorganic and Organometallic Polymers and Materials*

### Graduate Employee Organization

*Feb. 2018 – April 2020*

- Chemistry department steward
  - o Representative in the graduate student labor union at the University of Michigan (University of Michigan GEO): promoted membership, attended meetings, organized events and actions, distributed information
- Organizing committee member
  - o Leadership role: trained new stewards in several departments and acted as their point of contact and support. Held stewards accountable for their plans and goals.

### F.E.M.M.E.S. after-school events coordinator

*April 2017 – April 2020*

- F.E.M.M.E.S. is a group at the University of Michigan that organizes capstone events at the university and after school events at regional elementary schools in which 4<sup>th</sup> and 5<sup>th</sup> grade girls participate in demos and activities relating to STEM.
- I organized events once a month at schools in the area and I designed and implemented new activities and lessons for these events.

### Karle Symposium organizing committee

*Feb. – August 2017*

- University of Michigan annual chemistry symposium designed and run by graduate students. Participated as a member of the publicity subcommittee for one year.

F.E.M.M.E.S. volunteer	<i>Oct. 2016 – March 2017</i>
- Volunteered at the capstone events hosted at U of M	
Science Olympiad Coach, Potions division	<i>Feb. 2016 – May 2016</i>
- Martin Luther King Junior Elementary School, Ann Arbor, MI, Grades 4-5	
Treasurer of the Chemistry Majors Committee (Oberlin College)	<i>Sept. 2012 – May 2013</i>
Vice president of the Oberlin College Equestrian Team	<i>Sept. 2012 – May 2013</i>
Secretary of the Oberlin College Equestrian Team	<i>Sept. 2011 – May 2012</i>

#### **Professional organization memberships**

- American Association of University Professors (AAUP)	<i>2025 – present</i>
- Institute of Physics (IOP)	<i>2025 – present</i>
- Midwestern Association of Chemistry Teachers in Liberal Arts Colleges (MACTLAC)	<i>2022 – present</i>
- Sigma Xi	<i>2013 – present</i>
- American Chemical Society (ACS)	<i>2013 – present</i>

#### **Invited Presentations**

University of Kansas, departmental seminar	<i>March 2025</i>
Colby College, departmental seminar	<i>January 2025</i>
Kalamazoo College, departmental seminar	<i>November 2024</i>
Wabash College, departmental seminar	<i>November 2024</i>
Bryn Mawr College, departmental seminar	<i>November 2024</i>
Haverford College, departmental seminar	<i>November 2024</i>
University of Iowa, departmental seminar	<i>April 2024</i>
Electrochemical Society Spring Meeting, Vancouver	<i>June 2022</i>
Grinnell College, departmental seminar	<i>December 2021</i>
Bowdoin College, departmental seminar	<i>December 2021</i>
University of San Francisco, departmental seminar	<i>November 2021</i>
Harvey Mudd College, departmental seminar	<i>November 2021</i>
Providence College, departmental seminar	<i>November 2021</i>
Santa Clara University, departmental seminar	<i>November 2021</i>
Murray State University, departmental seminar	<i>November 2021</i>
Albion College	<i>June 2021</i>
University of Notre Dame	<i>November 2019</i>
Argonne National Laboratory	<i>October 2019</i>
Los Alamos National Laboratory	<i>October 2019</i>
Albion College	<i>December 2016</i>

## **Selected Contributed Presentations**

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“Elucidation of *f*- and *d*- metal ion adsorption dynamics on tin oxide surfaces using electrochemistry.” Poster presentation at the Gordon Research Conference on Electrochemistry, Ventura, CA  
*January 2026*

“Cerium Ion Adsorption to Fluorine-Doped Tin Oxide Electrodes.” Oral presentation at the Electrochemical Society Annual Meeting, Gothenburg, Sweden  
*October 2023*

“Tuning the Electrodeposition of Actinides in Molten Alkali Halide Salts.” Oral presentation at the American Chemical Society Midwest Regional Meeting (MWRM), Iowa City, IA  
*October 2022*

“Effects of Film Morphology on Electrocatalyst Immobilization on Graphitic Thin Films”  
Materials Research Society, fall meeting  
*December 2019*

“Molecular Immobilization on Carbon Materials.” Oral presentation at the 3<sup>rd</sup> Molecules and Materials for Artificial Photosynthesis conference in Cancun, Mexico  
*March 2018*

“Insights into the Reduction of Graphene Oxide and its Use as an Electrode Coating.” Oral presentation at the Karle Symposium, University of Michigan, Ann Arbor, MI  
*August 2017*

“Progress Toward the Synthesis of New Organosulfonate Complexes from the Commodity Chemical H-Acid for the Assembly of Microporous Frameworks.” Honors presentation to department, Oberlin College, Oberlin, OH.  
*May 2013*

“Dithiophosphinates as an Approach to the Separation of Actinides and Lanthanides.” Oral presentation at the national American Chemical Society conference in New Orleans  
*April 2013*

## **Technical Skills**

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Laboratory techniques: Electrochemistry and photoelectrochemistry, actinide and transuranic chemistry, inert atmosphere glovebox, Schlenk line, high temperature manipulations and molten salt chemistry, column chromatography purifications, synthetic organic and inorganic chemistry, spin-coating, plasma-etching and wet etching, four-point probe measurements

Analysis: X-ray photoelectron spectroscopy (**XPS**), atomic force microscopy (**AFM**), **IR** spectroscopy, **UV-Vis** spectroscopy, **Raman** and micro-Raman spectroscopies, **NMR** spectroscopy, scanning electron microscopy (**SEM**), energy dispersive spectroscopy (**EDS**), X-ray fluorescence spectroscopy (**XRF**), fluorescence spectroscopy, electron paramagnetic resonance spectroscopy (**EPR**), atomic absorption and emission spectroscopies (**AAS**, **AES**, **ICP-MS**), gas chromatography (**GC**), mass spectrometry (**MS**), high performance liquid chromatography (**HPLC**).

Software: Microsoft Office, Origin, Adobe Illustrator, CasaXPS, several potentiostat softwares, VersaStudio, Anasys Studio, Gwyddion, CasaXPS, DigiElch, ImageJ, IgorPro

Language: English (first language), German (intermediate, B2 level)

### **Awards and Recognition**

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Poster presentation award at the University of Michigan Karle Symposium	<i>August 2018</i>
Short talk award at the 3 <sup>rd</sup> Molecules and Materials for Artificial Photosynthesis conference	<i>March 2018</i>
Student talk award at the University of Michigan Karle Symposium	<i>August 2017</i>
National Science Foundation Graduate Research Fellowship awardee	<i>April 2017</i>
Poster presentation award at the University of Michigan Karle Symposium	<i>July 2016</i>
ACS Undergraduate Award in Inorganic Chemistry	<i>June 2013</i>
Graduated with honors from Oberlin College	<i>May 2013</i>
American Chemical Society recognized bachelor's degree in chemistry	<i>May 2013</i>
Oberlin College award for inorganic chemistry	<i>May 2013</i>
Cleveland Section of the American Chemical Society Meeting in Miniature oral presentation	<i>March 2013</i>
Los Alamos National Laboratory Summer Student Symposium poster presentation award for the chemistry division	<i>August 2012</i>