

POLY 317

EDUCATION

University of Oregon
Master of Science in Chemistry (Focus: Polymer Science) Eugene, Oregon
Expected Fall 2018

University of Wisconsin-Eau Claire
Bachelor of Science in Chemistry (Focus: Materials Science) Eau Claire, Wisconsin
May 2017
Magna Cum Laude, Cumulative GPA: 3.69

EXPERIENCE

Graduate Student June 2017-present

University of Oregon, Department of Chemistry

Developed technical skills to become a more effective problem solver in the lab while emphasizing communication, team work and leadership necessary for industry.

- Formulated and performed ring opening, radical, anionic and cationic polymerizations in a timely manner while complying with standard operating procedures. Studied synthesis, characterization and processing of polymers.
- Investigated physical and mechanical properties of polymers. Prepared, tested and analyzed polymer samples and data for DSC, TGA, TMA, DMA. Performed polymer thermal, molecular and rheological characterization.
- Established and developed transferrable skills such as public speaking and interviewing skills through weekly collaborative meetings.

Undergraduate Research Assistant, Dr. Elizabeth Glogowski September 2015-May 2017

University of Wisconsin-Eau Claire, Department of Materials Science

Studied thermoresponsive polymers for potential applications ranging from enhanced oil recovery to drug delivery.

- Synthesized polymers via atom transfer radical polymerization with air-free techniques. Confirmed high yield and purity of smart products via NMR, GPC and XPS.
- Performed thermoresponsive testing of polymers including interfacial tension testing, viscosity testing, and storage & loss modulus measurements, and plotted and analyzed trends in data.
- Authored multiple standard operating procedures for rheology storage and loss modulus testing of thermoresponsive polymers through literature searches and experimental trials.
- Trained undergraduate students on rheometer standard operating procedures and was point person for questions regarding the instrument.
- Wrote a proposal for novel research of thermoresponsive polymers and was awarded funding from the University of Wisconsin-Eau Claire.

Swing Manager March 2012-March 2013

McDonald's

Led 4-10-person crew team through successful rush shifts while working in fast-paced food service environment and prioritizing customer satisfaction.

- Ensured customer satisfaction and store efficiency during rush shifts with short order completion times and minimized food waste by keeping crew team encouraged and organized.
- Resolved customer complaints through active listening and offering consolation through immediate replacement of purchase. Adapted to the needs of the shift and crew members by helping in grill, taking food orders, and cleaning the entire store.
- Monitored employee's skills and efficiency and reported results to store manager for crew member reviews.
- Monitored stock and inventory through weekly inventory of in-store supplies and communicated store needs with the store manager. Handled cash for entire store during closing shift and ensured safe keeping.

LEADERSHIP EXPERIENCE

Event Coordinator, American Chemical Society-Student Affiliate

September 2016-May 2017

University of Wisconsin-Eau Claire

Organized and planned events including meetings, fundraisers and holiday receptions for the American Chemical Society-Student Affiliate.

- Increased member participation in club events by receiving feedback and tailoring to members and peers. Conducted member surveys to confirm event plans and satisfy majority of members.
- Contacted venues for American Chemical Society Banquet and communicated information with treasurer and president.
- Communicated closely with president, vice-president and treasurer to plan events such as graduate school visits, industrial lab visits, Halloween party, Christmas party and outreach events in the community. Worked with professors to provide interesting and safe activities for outreach events at elementary and middle schools.

Student Academic Apprentice, Department of Chemistry

September 2016-December 2016

University of Wisconsin-Eau Claire

Led an analytical general chemistry lab as an academic apprentice by stimulating students' development of technical lab skills.

- Prepared and retrieved solutions, organized tools, and set up glassware prior to lab.
- Guided students through active learning by performing demonstrations and answering any questions students may have had. Taught students skills such as solution preparation, dimensional analysis and proper lab techniques.
- Reorganized entire stock of chemicals in lab and ensured safe and proper disposal of chemicals.

PRESENTATIONS

- 20-minute oral presentation entitled "Measuring Smart Properties of mPEG-block-PDMAEMA for Potential Applications in Dispersed Dye Removal", National Conference for Undergraduate Research. Memphis, Tennessee, April 2017.
- "Tuning Smart Properties of mPEG-*block*-PDMAEMA Through Polymer Composition", Conference for Undergraduate Women in Physical Sciences. Lincoln, Nebraska, 2016.
- Poster "Effects of PDMAEMA Molecular Weight on Smart Properties of mPEG₄₃-*block*-PDMAEMA", Wisconsin Science and Technology Symposium. Oshkosh, Wisconsin, August 2016.
- Poster "Impact of PDMAEMA Molecular Weight on Smart Properties of mPEG₄₃-*block*-PDMAEMA", Celebration of Excellence in Research and Creative Activity. Eau Claire, Wisconsin, April 2016.

AWARDS

Chair's Award for Outstanding Academic Achievement

April 2017

American Chemical Society Banquet, University of Wisconsin-Eau Claire

Best Poster Award

October 2016

Conference for Women in Physical Sciences, University of Nebraska-Lincoln

Summer Research Grant, ORSP SREU

June 2016

Department of Materials Science, University of Wisconsin-Eau Claire

Recipient of L.A. Ochrymowycz-Alfred Bader Chemistry Scholarship

April 2016

American Chemical Society Banquet, University of Wisconsin-Eau Claire