

POLY 301

EDUCATION

University of Oregon

Master of Science in Chemistry
Focus: Polymer Science

Eugene, OR

Jun 2018 (expected)

University of St. Thomas

Bachelor of Science, Magna Cum Laude
Major: Biochemistry Minor: English

St. Paul, MN

May 2014

TECHNICAL EXPERIENCE

Andersen Corporation

Materials Technician II

Bayport, MN

Dec 2016 – Jun 2017

Supported the Applied Technology department in research and development of adhesives, coatings, sealants, wood treatments, composites, and other materials used in window and door products.

- Prepared material samples using saws, power tools, and other shop equipment while following required safety procedures. Performed physical testing on samples according to ASTM standards, including weathering, adhesion, tensile strength and chemical resistance.
- Utilized Instron machinery to test samples and collect data. Leveraged Minitab and Microsoft Excel to create organized tables and graphs for test reports and presentations to business units for determining next steps in project.
- Improved accuracy and consistency of test standards by revising outdated practices and collaborating with others in development and implementation of new testing methods.
- Streamlined testing on Instron machinery by training new users on software and operation procedures and creating a network calendar on Microsoft Outlook where users were able to schedule their testing in advance and view availability of equipment.
- Implemented inaugural system for tracking of technician work in Applied Technology department by creating a work request form and work log that captured details of each work request.

HB Fuller Company

Laboratory Technician

Vadnais Heights, MN

Dec 2015 – Sep 2016

Performed synthesis and testing of adhesives in support of product development for an electronics assembly project in the Engineering Adhesives division.

- Synthesized air-free batches of polyurethane adhesive and utilized titrations to monitor moisture content of raw materials and extent of polymerization. Maintained high standards of safety and environmental health practices while working in laboratory.
- Ensured that project deadlines were met by preparing samples for adhesive testing, such as impact coupons, tensile pins, lap shears, or drawdowns. Performed physical testing according to ASTM standards including drop impact, tensile strength, elongation, shear impact and chemical resistance.
- Operated Instron machinery for sample testing and employed Minitab and Microsoft Excel for data input and analysis. Provided actionable insights to senior scientists and project managers for communication with customer and determination of next steps in project.

University of St. Thomas Chemistry Department

Undergraduate Research Assistant, Dr. Eric Fort

St. Paul, MN

Jun 2012 – May 2014

Performed organic synthesis research focused on polycyclic aromatic azaborines, molecules that have potential to be used as biological markers, photovoltaics, and organic LEDs.

- Synthesized novel small molecule by executing small-scale reactions using Schlenk techniques and a microwave reactor for coupling reactions.
- Purified and analyzed reaction products with techniques such as chemical extraction, distillation, recrystallization, column chromatography, NMR, IR, and mass spectrometry.
- Researched academic journals to learn about relevant work being done by other researchers, compare spectroscopy results, and discover new reaction schemes.
- Created and delivered presentations on research project, most notably a poster at American Chemical Society conference in March 2013. Also wrote a grant proposal and received funding through the university's Young Scholars Program.
- "Novel Synthesis of 9-substituted acridines" submitted July 2017, Journal of Organic Chemistry.

NON-TECHNICAL EXPERIENCE**Nike Factory Store**

Athlete (Sales Associate)

Eagan, MN

Jul 2014 – Nov 2015

Assisted in management of footwear department and store operations while providing superior service in outfitting customers with footwear, apparel, and equipment for their athletic needs.

- Created a positive shopping experience for customers by educating them on product offerings, accurately and efficiently performing transactions, and maintaining store cleanliness.
- Maximized sales and service in footwear department by executing merchandising and inventory changes to maintain visual appeal and appropriate stocking, ensure accurate signage of prices and sales, cycle out old inventory, and make room for new products.
- Trained other employees on footwear products, technology, and merchandising and served as a point of contact for any questions they had about products or inventory.
- Served as a seasonal manager, assisting with cash management, training and assigning tasks to other employees, and writing daily reports on store performance to send to regional manager.

Emergency Care Consultants

Medical Scribe

Minneapolis, MN

Jun 2014 – Sep 2014

Served care providers in hospital's Emergency Department by recording details of patients' visits.

- Ensured accurate billing and recordkeeping of patients' stays in Emergency Department by documenting their symptoms, physical exams, laboratory results, medications received, procedures performed, and discharge instructions as dictated by care provider.
- Maintained efficiency of Emergency Department by updating the provider when important results become available to allow for quick and appropriate treatment and discharge of patients.
- Shadowed care provider during patient interactions to learn about various health symptoms, diseases, procedures, and treatment methods.