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## Education

**Saint John's University**, Collegeville, MN  
Bachelor of Arts, Chemistry with American Chemical Society concentration  
Minor in Mathematics  
Graduation Date: May 2013

**North Dakota State University**, Fargo, ND  
Inorganic Chemistry, PhD program  
STEM Education, PhD program (dual option)  
Major Advisor: Dr. Erika Offerdahl  
Dissertation:  
Expected Graduation Date: May 2018

## Honors and Awards

- 2014 STEM Education PhD Program Fellowship
- 2009-2013 Regents/Trustees Scholar
- 2013 CSBSJU Department of Chemistry Distinguished Service Award

## Teaching Experience

### **College of St. Benedict/ Saint John's University Department of Chemistry**

#### **Undergraduate Teaching Assistant**

CHEM 201 Purification and Structures 1 Fall 2011, Fall 2012  
A 4-hour lab period held once every 6-day cycle with 16 students per lab.

- Assisted with Student questions during lab periods.
- Assist lab professor with various tasks
- Provide set-up and technique demonstrations for each lab.
- Maintain organization and cleanliness of the lab space
- Load and run NMR samples for each lab section.

CHEM 202 Purification and Structures 2

Spring 2012, Spring 2013

- A 4-hour lab period held once every 6-day cycle with 16 students per lab.
- Assisted with Student questions during lab periods.
- Assist lab professor with various tasks
- Provide set-up and technique demonstrations for each lab.
- Maintain organization and cleanliness of the lab space
- Prepare size-exclusion and affinity chromatography columns for student use.
- Load and run NMR samples for each lab section.

CHEM 236 Organic Chemistry II

Spring 2012

A 4-hour lab period held once every 6-day cycle with 16 students per lab.

- Assisted with Student questions during lab periods.
- Assist lab professor with various tasks
- Provide set-up and technique demonstrations for each lab.
- Provide feedback on student-designed research projects
- Load and run NMR samples for each lab section.

## **North Dakota State University Department of Chemistry and Biochemistry**

### **Graduate Teaching Assistant**

CHEM 121L General Chemistry 1 Laboratory

Fall 2013

A 3-hour lab period held once a week with 20 students per lab.

- Assisted with student questions during lab periods
- Create lab-based quizzes to monitor participation
- Provide set-up and technique demonstrations for each lab
- Maintain organization and cleanliness of the lab space

## Research Experience

### **College of St. Benedict/ Saint John's University Department of Chemistry**

Chemistry Senior Thesis Capstone Project (CHEM 360) Fall 2012- Spring 2013

- Synthesized a Nickel-based organometallic complex.
- Utilized NMR and IR to analyze the success of synthesis.
- Monitored an isomerization reaction using kinetics and GCMS.
- Used information to design a fully-integrated upper division chemistry lab.

CSBSJU Summer Undergraduate Research Program (as Stockroom assistant)

Summer 2012

- Synthesized multiple metal coordination complex compounds for use in the chromatography labs.
- Helped in developing lab instructions for the newly designed measurement lab.

- Prepared and assessed usability of unknowns for Purification I and II labs
- North Dakota State University Department of Chemistry and Biochemistry**

Graduate Research Assistant January 2014 – present  
 Dr. Erika Offerdahl Lab

- Analyzing digital exhaust from the learning management system Blackboard
- Redesigning quizzes based in blackboard for monitoring students
- Reviewing literature and writing manuscripts for future publication

Graduate Rotation Student October 2013  
 Dr. Pinjing Zhao Lab

- Synthesize Rh organometallic complex
- Monitored reaction progress using  $P^{31}$  NMR

Graduate Rotation Student November 2013  
 Dr. Seth Rasmussen Lab

- Synthesized octylamide dtp
- Utilized a Schlenk line lab apparatus
- Analyzed success using  $H^1$  NMR

## Other Relevant Work Experience

Chemistry Stockroom Assistant Fall 2011- Spring 2013

- Maintain database of entire chemical stock
- Maintain cleanliness and stock of all academic labs
- Maintain organization and operation of the JEOL NMR and the autosampler

## Publications

- Nothing which is why there is this lovable placeholder here <(^\_^<) (>^\_^>

## Funding

- A mystery! Better call Scooby Doo and the gang!

## Presentations

- CSBSJU Oral Senior Thesis Presentation Celebrating Scholarship and Creativity Day April 23<sup>rd</sup>, 2013
  - Synthesis and Characterization of  $Ni[P(OEt)_3]_4$  and Exploration of its Catalytic Properties in a New Integrated Lab

## Mentorship

- Coming soon.

## Service and Outreach

- Member, Saint John's University Senior Class Committee, Class of 2013

### Special Training

- Minitab Statistical Package
- Java script programming language
- IRB Certified CITI training (Certified since January 2014)

### Memberships

- American Chemical Society
- NDSU Chemistry and Biochemistry Graduate Student Association