

Jacob Fripp
JacobFripp@my.unt.edu

Work Experience:

Graduate Researcher 2/27/2018- Present University of North Texas
(UNT), Denton TX

- Worked under Dr. Omary investigating variants and properties of metal-organic frameworks (MOFs), specifically FMOF-1.

Water Quality Investigator 3/12/2018-3/18/2018 Engineers without Borders,
Los Chagüites, Nicaragua

- Performed water quality testing via various dip strips testing for pH, alkalinity, hardness, and nitrate/nitrite concentrations; along with using a colorimeter for determining chlorine concentrations.
- Provided instructions on the process of producing chlorine with off-grid technology for water purification.
- <https://chemistry.unt.edu/node/7342>

Graduate Teaching Assistant 8/1/2017- Present UNT, Denton TX

- Prepared and taught undergraduate chemistry labs.
- Conducted one-on-one and group tutoring with undergraduates.

Undergraduate Research Assistant 12/14/2015- 5/17/2017 Stephen F. Austin State
University (SFASU), Nacogdoches TX

I have conducted research under Dr. Zamadar to investigate the interactions of porphyrins and various cations, including identification of metals and binding constants of the complex.

Chemistry Tutor 6/20/2015- 5/17/2017 SFASU-Academic
Assistance and Resource Center (AARC), Nacogdoches TX

- Provided undergraduate tutoring in the following classes: concepts of chemistry 1 and 2, general chemistry 1 and 2, and organic chemistry 1 and 2.
- Was assigned to both reoccurring weekly tutoring sessions and walk-in tutoring sessions.
- College Reading and Learning Association (CRLA) level 2 certified.

Customer Service Associate 6/10/2014-5/15/2015, 5/2/2017-7/15/2017 Lowe's
Home Improvement, Lufkin TX

Lifeguard/Swim Instructor 2/04/2012-4/24/2014 YMCA, Mansfield TX/Williamsburg VA

Education:

UNT 8/2/2017-Present Denton, TX
PhD student in Inorganic Chemistry, 3.857 GPA (in progress).

SFASU 6/20/2015- 5/17/2017 Nacogdoches, TX
Major: Bachelor of Science in Biochemistry, GPA: 3.62. Graduated Magna Cum Laude

Presentations and Conferences:

Drip Bucket Irrigation 8/20/2016 I presented as part of the **Tarrant Area Food Bank Learning Garden** in Fort Worth, Texas. This presentation focused on small scale agriculture.

Social Justice and Drip Bucket Irrigation 7/16/2016 I presented at **Dig Deep: A Conference for Growers**, University of North Texas, Denton TX. I presented different irrigational practices with an emphasis on third world agricultural development. Further information at <https://www.unthsc.edu/newsroom/story/conference-aims-help-community-gardeners/>

Drip Irrigation 8/29/2015 I presented as part of the **Fighting Hunger is Never a Game** series with Tarrant Area Food Bank in Fort Worth, Texas. I also lead in the construction of basic drip irrigation at a community garden as part of a day long workshop instruction.

Other Training and Certification

Lifeguard certification, including CPR/AED and Deep Water Rescue certified.

SCUBA certified, including Deep Water SCUBA certified.

Tropical Agricultural Development, ECHO community.

Order picker lift operator, in house certification at Lowe's warehouse.

Lead Rock Climber, Seneca Rocks Climbing School.

Awards and Recognition:

- 2015 Fall Dean's List.
- 2016 Spring President's List.
- Recipient of the Community College Transfer Scholarship (Fall 2015-Spring 2017).
- Fall 2016 SFA Alumni Scholarship.
- Fall 2016 William J. Pitts Memorial Scholarship.
- Fall 2016 Robert A. Welch Scholarship.
- Spring 2017 Recruiting Scholarship
- Spring 2017 Outstanding Senior Award
- Summer 2017 Graduating Magna Cum Laude

References: *Available upon request*