

Carly Miller Carter

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EDUCATION

Texas Lutheran University

Bachelor of Science in Chemistry

Minor in Mathematics

Graduation Date: May 2018

Seguin, Texas

University of North Texas

Current Ph.D. student, inorganic chemistry

Research advisor: Dr. Thomas R. Cundari

Start Date: August 2018

Denton, Texas

RESEARCH EXPERIENCE

University of North Texas (Fall 2018-present)

- Currently working in Dr. Cundari's computational lab.
- Studying C-H activation of methane with various inorganic complexes through computational chemistry means.
- Modeling and conducting theoretical calculations of reactions.

United States Department of Agriculture (Summer 2017)

- Worked in the Beltsville Agricultural Research Center in the Adaptive Cropping Systems Laboratory under Dr. Eton Codling in Beltsville, MD.
- Researched the uptake of cadmium and arsenic in rice in various water managements.
- Studied soils from various areas around northeast America to determine how their various chemical composition has changed over time.

Texas Lutheran University (Summer 2016-Spring 2018)

- Conducted multiple greenhouse studies under Dr. Alison Bray.
- Studied the effects of varying flood conditions on arsenic uptake by *Cocodrie* rice, funded by the USDA.

PRESENTATIONS

Poster Presentations:

- **Miller, C.**, Nava, R., Bray, A.* *Effects of varying flood conditions on arsenic uptake by Cocodrie rice*. The American Chemical Society Southwest Regional Meeting in Galveston, Texas (November 2016)
- **Miller, C.**, Nava, R., Bray, A.* *Effects of varying flood conditions on arsenic uptake by Cocodrie rice*. The Undergraduate Research Day at the State Capital in Austin, Texas (March 2017)

- **Miller, C.**, Nava, R., Bray, A.* *Effects of varying flood conditions on arsenic uptake by Cocodrie rice*. The Student Academic Symposium at Texas Lutheran University in Seguin, Texas (April 2017)

TEACHING EXPERIENCE

- Teaching Assistant for General Chemistry Laboratories, University of North Texas, Department of Chemistry (Fall 2018-present)
- Analytical Chemistry tutor, Texas Lutheran University (Fall 2017)
- Teaching Assistant for General Chemistry I Laboratory, Texas Lutheran University, Department of Chemistry (Fall 2015)

TECHNICAL, COMPUTER, & RESEARCH SKILLS

- Familiar with Gaussian 09, GaussView, ChemCraft, Microsoft Word, Power Point, and Excel
- Experienced with instrumentation that include: ICP-OES, Flame AA, IR, UV-Vis, and NMR Spectrometers
- Acquainted with various lab techniques that include: sample digestion, liquid chromatography, titration, synthesis, separation, and purification.

AWARDS & SCHOLARSHIPS

- Texas Lutheran University Scholarship Pacesetter Award for College Excellence (PACE) (2014-2018)
- Texas Lutheran Chemistry Department Science Scholarship, Outstanding achievement Scholarship (Spring 2016)
- Dean's List (GPA over 3.5) (Fall 2016 & Spring 2017)