

# Carlos Joel Waddle

308 Clay Ln., Red Oak, TX • (469) 471-3405 • carlos.ruiz2@mavs.uta.edu

## EDUCATION

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### Bachelor of Science in Microbiology

May 2023

The University of Texas at Arlington

### Associate of Science

May 2020

Navarro College

## RESEARCH EXPERIENCE

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### I-Engage Mentoring Program

Summer 2022

*College of Science, The University of Texas at Arlington*

- Contribute to multi-disciplinary project under the guidance of a graduate student to carry on an independent component of the project.
- Collaborate and coordinate with faculty, staff scientists, and graduate students across departments.

### Undergraduate Research Assistant

Summer 2022

*Department of Chemistry and Biochemistry, The University of Texas at Arlington*

- Design and execute small & large synthetic reactions of biomimetic molecules.
- Contribute to multi-disciplinary project aimed at discovering biomimetic molecule of relevance towards the enhancement of land-port cement.
- Collaborate and coordinate with faculty, staff scientists, and graduate students across departments.

### Undergraduate Researcher

May 2021-May 2023

*Department of Chemistry and Biochemistry, The University of Texas at Arlington*

- Design and synthesize biomedically relevant nitric oxide biosensors.
- Collaborate and coordinate with faculty and graduate students within the department of bioengineering at The University of Texas at Arlington.

## TEACHING AND MENTORING EXPERIENCE

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### Lead Microbiology Teaching Assistant, Nursing Microbiology

Spring 2023

*Department of Biology, The University of Texas at Arlington*

- Prepared media and experiments for the class experiments.
- Utilized deesterilization tactics to clean hazardous materials.
- Trained and lead a group of microbiology Teaching Assistants to carry out tasks.

### Welch Scholars Summer Program Volunteer

Summer 2022

*College of Science, The University of Texas at Arlington*

- Mentored a welch summers scholar on the proper methods for setting up synthetic reactions.
- Guided the student in preparation and presentation of research findings.

### Microbiology Teaching Assistant, Nursing Microbiology

Spring 2022

*Department of Biology, The University of Texas at Arlington*

- Prepared media and broth for class experiments.
- Utilized deesterilization tactics to clean hazardous waste.
- Trained under a Lead Microbiology Teaching Assistant on the correct procedures for a variety of tasks.

## HONORS AND AWARDS

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### Leadership Honors Distinction

☐ Qualified by completing all the requirements and tasks within the Leadership Honors Program.

2023

### Maverick Advantage Distinction

☐ Qualified by completing 3 of 5 of the distinguishing activities such as leadership development, undergraduate research, and community engagement.

2023

### I-Engage Fellowship

☐ Awarded to a total of 2 undergraduate researchers in each department to carry on research under the guidance of a graduate student.

2022

### Maverick Academic Scholarship

☐ Maverick Academic Scholars are selected from incoming freshmen that have a demonstrated history of strong academic performance

2020

## PUBLICATIONS

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## CONFERENCE PRESENTATIONS

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### POSTER PRESENTATIONS

Thanh Vuong, Tam Nguyen, Na Nguyen, Carissa Chavarria, Carlos Waddle, Dr. KyTai Ngyuen and Dr. Frank Foss\*. (2022, April). Fluorescence turn-on probe for detecting nitric oxide in aqueous solution. Poster presented at Discover 2022 Showcase, The University of Texas at Arlington.

## UNIVERSITY SERVICE

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### Leadership Retreat Small Group Leader

October 2022

*The Follett Student Leadership Center, The University of Texas at Arlington*

- Responsible for facilitating small group learnings regarding the values of leadership and communication.
- Assisted full-time faculty with facilitating the entirety of the Leadership Retreat.

- Responsible for the well-being and organization of the Leadership Retreat participants.

**Student Assistant- UTA Leadership Honors Program Student Director** **September 2022**  
*The Follett Student Leadership Center, The University of Texas at Arlington*

- Responsible for marketing on social media of opportunities within the program.
- Responsible for cultivating global minded leaders by providing information towards a student's progress within the program.
- Responsible for planning events and workshops to introduce different areas of leadership to participants in the program.

**President- Chemistry and Biochemistry Society** **August 2022**  
*College of Science, The University of Texas at Arlington*

- Responsible for contacting and gathering resources related to pre-professional development within the field of chemistry for members.
- Collaborate with other student organizations to host collaborative events.
- Introduce members to a wide variety of research opportunities.
- Work with the executive members to provide feedback and resources to present the best experiences.

**The Big Event Site Leader** **February 2022**  
*EXCEL Campus Activities, The University of Texas at Arlington*

- Responsible for contacting volunteers sites to organize a date, time and activity for volunteers.
- Lead a team of volunteers to carry out tasks at a volunteer site of choice.

**Member-Science Constituency Council** **September 2021**  
*College of Science, The University of Texas at Arlington*

- Attended general body meetings regarding information for opportunities in research as well as interacting with current College of Science faculty.

**Treasurer- Chemistry and Biochemistry Society** **August 2021**  
*College of Science, The University of Texas at Arlington*

- Responsible for financial tasks related to membership fees and fundraising activities.
- Collaborating with other executive members with fees regarding any activities initially planned.

**Student Assistant- UTA Volunteers Public Relations Director** **May 2021**  
*The Follett Student Leadership Center, The University of Texas at Arlington*

- Assisted with the development of graphic designs for social media purposes.
- Assisted with the development of members engagement and introduction into the world of servant leadership.

**Super Service Saturday Committee Member** **July 2021**  
*The Follett Student Leadership Center, The University of Texas at Arlington*

- Participated in the organization of the Super Service Saturday Event, in which volunteer opportunities and event set up were gathered.

**Member- Korean Culture Association** **January 2021**  
*Department of Involvement and Engagement, The University of Texas at Arlington*

- Attended general body meetings regarding the introduction of Korean culture and language.
- Attended social events related to Korean cultural events.

**Historian- Freshman Leaders on Campus** **October 2021**  
*The Follett Student Leadership Center, The University of Texas at Arlington*

- Responsible for collaborating with other historians to gather information and design graphics utilized for social media.
- Created posters and flyers for large events hosted by the Freshman Leaders on Campus.

## LANGUAGES

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Spanish: Proficient  
English: Fluent

## REFERENCES

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**Frank Foss, PhD, Associate Professor**

Department of Chemistry and Biochemistry  
The University of Texas at Arlington  
(817) 272-5245, ffoss@uta.edu

**Whitney Tholen, PhD, Assistant Professor of Instruction**

Department of Biology  
The University of Texas at Arlington  
(817) 272-1511, whitney.tholen@uta.edu

**Saiful Chowdhury, PhD, Associate Professor**

Department of Chemistry and Biochemistry  
The University of Texas at Arlington  
(817) 272-5439, schowd@uta.edu

**Keri Decay, MBA, Assistant Director**

The Follett Student Leadership Center  
The University of Texas at Arlington  
(817) 405 4684, keri.decay@uta.edu

**Becka Shetty, PhD, Director**

The Follett Student Leadership Center  
The University of Texas Arlington  
(817) 272 3211, becka.shetty@uta.edu



