

LOGAN CARR

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EDUCATION

- PhD** University of Texas at Austin, Physical Chemistry Fall 2024 - Present
Principal Investigator: Dr. Delia Milliron
- BS** Linfield University, Chemistry (ACS Certified) Fall 2021 - Spring 2024
Magna Cum Laude
Overall GPA: 3.84; Science GPA: 3.89

EXPERIENCE

- Graduate Research Assistant**, UT Austin Fall 2024 – Present
- Investigating plasmonic semiconductor nanocrystals and their applications for hot electron transfer and uses in polariton cavities.
- Graduate Teaching Assistant**, UT Austin Fall 2024 – Present
- Teaching undergraduate general chemistry (104M) lab courses, holding office hours, grading lab work.
- Undergraduate Research**, Linfield University Spring 2021 – Fall 2024
- Conducted research under Dr. Brian Gilbert and Dr. Megan Bestwick. Explored interactions between fluorescent functionalized nanoparticles and yeast cells through surface enhanced Raman scattering and fluorescence microscopy. Progressed to mentoring new student researchers on the same project.
- Chemistry Tutor**, Linfield University Spring 2022 – Spring 2024
- Hosted solo tutoring hours once a week for general and organic chemistry students, assisting with both material from lab and lecture.
- Undergraduate Teaching Assistant**, Linfield University Fall 2021 – Spring 2024
- Graded lab reports, assisted in setting up and running labs, gave pre-lab lectures, guided students through experiments, and monitored exams for general chemistry and organic chemistry (210/211 & 321/322).
- Linfield Football Study Hall Peer Tutor**, Linfield University Fall 2022 – Fall 2024
- Led a group study hall for underclassmen football players. Acted as a supervisor, mentor, tutor, and managed attendance.

RESEARCH PRESENTATIONS

- Poster Presentation**, Carr, L., Gilbert, B., Bestwick, M. (2024) “Fluorescence-functionalized noble metal nanoparticles for targeted attachment to subcellular structures of *Saccharomyces cerevisiae*” ACS Spring National Meeting, New Orleans, LA.
- Poster Presentation**, Carr, L., Gilbert, B., Bestwick, M. (2022) “Antibody-coated nanoparticle attachment to yeast cell membrane” ACS Spring National Meeting, San Diego, CA.

LEADERSHIP EXPERIENCE

- Student Athlete Advisory Committee**, Linfield University Fall 2023 – Spring 2024
- Acting as a representative for the Linfield football team on a committee of student athletes at Linfield University, helping organize athletic events, fundraisers, volunteer opportunities and community outreach events.
- Chemistry Club President**, Linfield University Fall 2022 – Spring 2023
- Serving as the current president with duties including presiding over and organizing meetings, monitoring expenses, and meeting with faculty support.
- Search Committee Student Member**, Linfield University Spring 2022 – Spring 2024
- Served as a student representative on the Linfield University Chemistry Department visiting assistant professorship and inorganic chemistry professor search committees.

HONORS AND AWARDS

- Provost's Graduate Excellence Fellowship** 2024
Awarded the multi-year PGEF at UT Austin after being accepted to the PhD program and visiting campus.
- Outstanding Senior in Chemistry** 2024
Awarded based on performance in chemistry classes during time at Linfield University.
- Linfield Football Special Teams Player of the Year** 2024
Awarded the special teams player of the year award as voted on by teammates and coaches during my sophomore year of college
- Brittany Hartzell Baguley Memorial Chemistry Research Award** 2023
Awarded the research-based scholarship in support of conducting collaborative research with faculty at Linfield University.
- Lois Gunning Fry Memorial Award** 2023
Awarded the Lois Gunning Fry memorial award after being nominated by the Linfield University Chemistry Department.
- ACS Undergraduate Award in Physical Chemistry** 2023
Awarded the ACS Undergraduate award in physical chemistry after being nominated by the Linfield University Chemistry Department.
- ACS Undergraduate Award in Analytical Chemistry** 2022
Awarded the ACS Undergraduate award in analytical chemistry after being nominated by the Linfield University Chemistry Department.
- CSC Academic All-District** 2022
Named to the College Sports Communicators academic all-district team for contributions both in the classroom and on the football field.
- Linfield Football Special Teams Player of the Year** 2021
Awarded the special teams player of the year award as voted on by teammates and coaches during my sophomore year of college.

PROFESSIONAL AND ATHLETIC AFFILIATIONS

American Chemical Society	2021-Present
Linfield University Chemistry Club	2022-2024
Linfield University Football	2021-2024
National Honor Society	2018-2019
Sherwood High School Football	2017-2020

REFERENCES

Dr. Brian Gilbert, Professor Linfield University, Chemistry Phone: 503-883-2469 Email: bgilber@linfield.edu	Dr. Megan Bestwick, Professor Linfield University, Chemistry Phone: 503-883-2265 Email: mbestwic@linfield.edu	Dr. Liz Atkinson, Professor Linfield University, Chemistry Phone: 503-883-2621 Email: eatkins@linfield.edu	Dr. Delia Milliron, Professor and Chair UT Austin, Chemical Engineering Phone: 512-232-5702 Email: milliron@che.utexas.edu
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