

Courtney Baumberger

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EDUCATION

Doctorate of Philosophy in Inorganic Chemistry 2023
Louisiana State University, Baton Rouge, LA
Research advisor: Dr. Matthew Chambers

Bachelor of Science in Chemistry, Freed-Hardeman University 2018
Minor: Spanish

TEACHING EXPERIENCE

Assistant Professor of Chemistry Harding University 8/2023 - present
Prepare and deliver lectures to undergraduate students in topics of general chemistry. Instruct and guide students through laboratory experiences designed to enhance concepts learned in lecture.

Teaching Assistant, Louisiana State University, Baton Rouge, LA 8/2018- 12/2022
CHEM 1212: General Chemistry Laboratory (2018-2022)
Guided students to learn general chemistry concepts by helping them to safely complete experiments.
Graded lab reports, midterm, and final exams

CHEM 3900: Mentored an Undergraduate Student 2022
(1/2022-5/2022)
Guided a student through synthesis and characterization of metal complexes. Taught student how to use and analyze data from NMR spectroscopy, GC-MS, UV-Vis spectroscopy, luminescent spectroscopy, and cyclic voltammetry.
(8/2022-12/2022)
Guided a student through synthesis and characterization of a metal complexes. Assisted a student with the preparation and separation of samples through filtration. Aided a student in the analysis of polymer samples using gel permeation chromatography (GPC).

Undergraduate Chemistry Tutor, Freed-Hardeman University, Henderson, TN 8/2015-5/2018
Provided one on one instruction to students in general chemistry and organic chemistry. Assisted students with homework and exam preparation by helping them to understand chemistry concepts.

PRESENTATIONS (oral)

1. Baumberger, Courtney.; Tren, Linh.; Fronczek, Frank.; Chambers, Matthew. B.; Thermodynamic and photochemical characterization of light-initiated C–H activation by synthetically modified Mo(VI) dioxo complexes, *ACS Conference, Virtual. (August 2021)*
2. Baumberger, Courtney.; Chambers, Matthew. B.; Investigating C–H functionalization photocatalysis of a Mo Dioxo Complex, *SWARM, Baton Rouge, LA. (November 2022)*
3. *Invited Speaker*, Freed-Hardeman University Henderson, TN

Presented research as part of ALUMNInation Day. Discussed research entitled “Photocatalytic investigating of C–H functionalization with a Mo(VI) dioxo complex” (November 2022)

Publications

Fosshat, S.; Siddhiaratchi, S. D. M.; **Baumberger, C. L.**; Ortiz, V. R.; Fronczek, F. R.; Chambers, M. B. Light-Initiated C–H Activation via Net Hydrogen Atom Transfer to a Molybdenum(VI) Dioxo. *J. Am. Chem. Soc.* **2022**, *144* (44), 20472–20483. <https://doi.org/10.1021/jacs.2c09235>.

PROFESSIONAL AFFILIATIONS

American Chemical Society 2021-present
Sponsor the Harding University ACS Chapter (8/2023-present)

Chemistry Graduate Student Council (CGSC) 2019-2021
CGSC Volunteer Chair (8/2019-7/2020)
Reach out to members of the community to develop and organize volunteering events for LSU students. Assist other CGSC members with planning and setting up other events.
Planned fund raiser for those affected by hurricane Dorian

CGSC Vice President (8/2020-5/2021)
Assist President and the rest of the council in planning events to provide graduate students an opportunity to connect outside of a laboratory setting
Planned Virtual game night, virtual movie night, and virtual trivia night
Assisted Chemistry Graduate Department in planning and organizing professional development seminars

Certificates

ACUE Promote Active Learning Course 2023
Learned skills to entice students to participate and engage in their own learning experience.
Gained insights and ideas on what kinds of activities engage students in learning.

VOLUNTEER AND COMMUNITY SERVICE ACTIVITIES

2024 Sponsor for the social club Shantih
2019 Demonstrator: Girls do chemistry (Junior girls scouts), LSU
2019 Geaux Science (Girl Scouts), LSU
2019 Demonstrator: Super Science Saturday, LSU