

ALISON LUSCOMB

aluscomb@mailbox.sc.edu

EDUCATION

CURRENT GRADUATE STUDENT
University of South Carolina - Columbia, SC

MASTER OF SCIENCE IN CHEMISTRY
University of Utah - Salt Lake City, UT

BACHELOR OF SCIENCE IN CHEMISTRY
University of Arkansas - Fort Smith, AR

TEACHING & LEADERSHIP

UNIVERSITY OF SOUTH CAROLINA

Senior Instructor | 2019 - Present
General Chemistry I and II, Honors Principles of Chemistry I and II

General Chemistry Lecture Coordinator | 2022 - Present
Coordinating faculty in meetings on CHEM 111 and CHEM 112 course policies and exams. Creating exam templates, homework sets, and practice exams. Building schedules and syllabi for all faculty. Creating recitation material for all sections of CHEM 112, and weekly training for all recitation TA's.

Nursing Chemistry Lab Coordinator | 2019 - Present
Developing and writing new lab experiments. Training and coordinating TA's. Ordering chemicals and maintaining chemical inventory. Creating Blackboard pre-lab quizzes, data sheet entry, and grade calculations.

UNIVERSITY OF UTAH

Graduate Teaching Assistant | 2018 - 2019
Health Science Lab and General Chemistry Lab.

UNIVERSITY OF ARKANSAS FORT SMITH

Undergraduate Teaching Assistant | 2016 - 2018
Organic Chemistry I Lab and Health Science Chemistry Lab.

Undergraduate Research Lab Manager | 2017 - 2018

Ordering, storage, and disposal of chemicals. Configuring, training, and writing SOP's for lab instrumentation.

AWARDS AND ACKNOWLEDGEMENTS

UNIVERSITY OF SOUTH CAROLINA

University Career Center's Career Influencer | 2024

Division of Student Affairs and Academic Support Recognition | 2023

Thank a Teacher Recognition | 2022, 2023, 2024, 2025

SDRC Two Thumbs Up Award | 2022, 2023

UNIVERSITY OF UTAH

TA of the Semester Award | 2019

UNIVERSITY OF ARKANSAS

Outstanding Research Student of the Year | 2018

First Place Oral Presentation, INBRE Research Symposium | 2017

ORAL PRESENTATIONS

"SYNTHESIS OF FUNCTIONALIZED GOLD NANOCAGES FOR ENGINEERING STEM CELL SCAFFOLDS"

STEM Seminar Series | University of Arkansas - 2017

INBRE Research Symposium | University of Arkansas - 2017

CAUSR Symposium | University of Arkansas for Medical Sciences - 2017

RESEARCH

UNIVERSITY OF SOUTH CAROLINA

Chemistry education | 2025 - Present

Education research regarding chemistry graduate students' preparations for third year proposals. Research focuses on graduate student perceptions of third year proposal, faculty perceptions, and possible solutions for aiding graduate students in preparing for third year proposals.

UNIVERSITY OF UTAH

Computational | 2018 - 2019

Computational simulations modeling behavior of nanopolymers. Simulations designed to represent behavior of experimentally produced polymers to advance knowledge in future routes of synthesis and potential use for simplistic protein folding models.

Biochemistry | 2018

Effects of coordinating ions on formation of secondary structures in nucleic acids.

UNIVERSITY OF ARKANSAS FAYETTEVILLE

Nanomaterials | 2017

Synthesis of gold nanoparticle surface to act as a scaffold in stem cell growth and differentiation.

UNIVERSITY OF ARKANSAS FORT SMITH

Analytical | 2017

Analysis of local waters using UV/vis spectroscopy, gravimetric analysis, and inductively coupled plasma atomic emission spectroscopy (ICP-AES).

Organic | 2016 - 2017

Synthesis of copper-based catalyst via Friedel-Crafts alkylation.

SERVICE

UNIVERSITY OF SOUTH CAROLINA

Faculty Club Advisor | 2025 - Present

USC Red Cross Club faculty advisor.

First-Generation Program: Mentor Lead | 2024

Leader of a team of first generation college students and other mentors.

Science Fair Judge | 2019 - Present

Judge at regional science fair for grades 9-12.

COMMITTEES

UNIVERSITY OF SOUTH CAROLINA

Laboratory Improvement Committee | 2023 - Present

Faculty Peer Review Committee | 2024 - Present

Undergraduate Education Enhancement Committee | 2023 - Present

Chemistry Outreach Committee | 2024 - Present

Faculty Senator | 2024 - 2027

MENTORSHIP

JOSH HOLMSTROM

University of South Carolina | 2025

Development of general chemistry demonstrations and 102 Lab experiments.

ISABELLA LATINOVIC

University of South Carolina | 2025

Honor's thesis director.

KARSON TODD

University of South Carolina | 2022

Development of CHEM102 Lab experiments.

PUBLICATIONS

UNIVERSITY OF SOUTH CAROLINA

Chemistry 102 Laboratory Manual, QDE Press | 2021-2025