



PHOEBE DAVIS

M I C R O B I O L O G Y S T U D E N T

CONTACT

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SKILLS

- Protein Expression and Purification
- Western Blotting and Immunoassays
- Laboratory Research Techniques
- Scientific Poster Presentation
- Leadership and Team Coordination
- Managing Multiple Academic and Leadership Commitments

EXTRACURRICULAR ACTIVITIES

- Member, Chi Omega Sorority, NMSU August 2024-Present
- Treasurer, Chi Omega Sorority, NMSU December 2025-Present
- Member, Honors Fraternity Phi Sigma Pi, December 2023-Present
- Member, ASBMB, December 2023-Present

PROFESSIONAL PROFILE

An independent and self-motivated undergraduate with two years of academic coursework in Microbiology looking for a Summer internship to apply knowledge in a laboratory setting. Hoping to gain hands-on experience to support my future academic and career growth in Microbiology. Eager to contribute to research projects while building my expertise in Laboratory techniques, data analysis, and experimental processes.

EDUCATION

Bachelor of Arts in Microbiology, Minor in Chemistry

New Mexico State University, August 2023-Present

- GPA: 3.7
- Crimson Scholar
- NMSU Honors College

LAB EXPERIENCE

Summer Research Program – University of New Mexico School of Medicine Pipeline Network

Research Intern | June 2025 – August 2025

- Participated in a 9-week biomedical research program, collaborating with students from diverse academic backgrounds and working under the mentorship of multiple research faculty members.
- Conducted research on **TRIM5**, a protein involved in innate immune mechanisms and autophagy pathways associated with cancer, inflammation, and infection.
- Performed laboratory procedures including **protein expression and purification, Western blotting, and protein-based immunoassays.**

- Investigated protein binding interactions within the autophagy pathway and developed increased technical proficiency and independence in a laboratory setting.
- Designed and presented a research poster at a scientific symposium, engaging with research across multiple biomedical disciplines.
- Gained practical experience in experimental design, troubleshooting, and the iterative nature of scientific research.

Biochemistry Research Assistant – New Mexico State University

Undergraduate Researcher | 2025 – Present

- Conduct research in a biochemistry laboratory studying **bacterial metal acquisition mechanisms**, with a focus on zinc uptake systems.
- Express and purify **ZrgE**, a protein involved in bacterial zinc acquisition, using standard protein purification techniques.
- Assist with experimental design, laboratory procedures, and troubleshooting to optimize protein expression and purification workflows.
- Develop technical skills in protein biochemistry and laboratory methods while contributing to ongoing research projects.
- Strengthened academic interest in microbial pathogenesis and molecular mechanisms of microbial survival.