

Paige Heine

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Education

University of South Carolina -

Columbia, South Carolina

December 2024

Bachelor of Science in Biochemistry and Molecular Biology

Minor in Spanish

GPA: 4.0

Clinical Experience

Prisma Health Parkridge Personal Touch Volunteer – Spring 2023 – PRESENT

- Patient interaction through patient assistance and discharge.
- Assist the nursing staff with patient room management, securing patient personal items, and ensuring the personal well-being of the patient during their hospital stay.

Shadowing - Dr. Justin Green, MD, HMGS Dermatology – Summer 2023

- Observed biopsies, removals, and surgeries.
- Obtained an understanding of the nature of skin cancer.
- Learned about a multitude of dermatological conditions and how to treat them.

Shadowing Dr. Lance Neveling, DO, Collingswood Family Medical Practice – Summer 2022

- Took patient vital systems.
- Assisted in patient diagnosis through daily work with physician.
- Gained insights into primary practice.

Shadowing Dr. Megan Gresh, MD, St. Christopher's Hospital – Summer 2022

- Side by side doctor evaluations of pediatric patients at the hospital and an off campus orthopedic office.
- Observed orthopedic hip surgery on a pediatric patient with cerebral palsy and hip displacement.

Shadowing Dr. Kathleen Maguire, MD, Children's Hospital of Philadelphia – Summer 2022

- Side by side doctor evaluations of pediatric patients.
- Doctor assisted analysis of X-Rays and MRIs for pediatric patients.

Research Experience

Dr. Phillip Buckhaults, Ph.D., Colorectal Cancer Lab - SEPT 2023 – PRESENT

- Developed high throughput drug testing on organoids. Resulted in the discovery that topoisomerase inhibits TP53 gene knockout colorectal organoid cells. Discovery being reviewed for medical journal publication. Pre-print available at <https://www.researchsquare.com/article/rs-4438536/latest> as of June 2024.
- Currently, analyzing, researching, and experimenting with the objective of discovering a new gene target for colon cancer treatment using organoid cells. Process includes the removal of the TP53 gene and treating with cisplatin against controls to observe mutations in cells that do not survive.

Leadership Experience

University 101 Peer Leader - Fall 2023, 2024

- Alongside a faculty member, taught a class of 18-20 first semester freshmen about the University of South Carolina and guided them towards success in their first year.

Capstone Scholars Service Team – Fall 2021 - PRESENT

- Day of Service Chair – Organized a group of 60 students to visit Charleston for a day and serve at four different non-profit organizations.
- Internal Relations Chair – Organized service events with local non-profits. Worked to boost team morale and bonding.
- Consultant – Guide the new members through their events and assist with planning and data collection.

Skills

- Spanish - conversational.
- Advanced laboratory techniques including PCR, DNA purification, and growing organoids.