

E. Brooke Haywood

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EDUCATION

Graduate Student in Biomathematics

Florida State University, Tallahassee, FL GPA: 3.5 Ongoing

Bachelors of Science (BS) in Biology

Francis Marion University, Florence, SC GPA: 3.67 May 2019

Bachelors of Science (BS) in Mathematics

Francis Marion University, Florence, SC GPA: 3.67 May 2019

WORK HISTORY

Teaching Assistant (Fall 2019 to Current)

Florida State University, Tallahassee, FL

Physical Science Technician (Spring 2016 to Fall 2019)

USDA – Agricultural Research Service, Florence, SC

Pediatric Research Intern (Summer 2018)

Eastern Carolina University, Greenville, NC

Orientation Leader (Spring & Summer 2018)

Francis Marion University, Florence, SC

Clinic Volunteer (Fall 2017)

Free Medical Clinic of Darlington, Darlington, SC

Environmental Intern (Summer 2017)

Santee Cooper Electric, Charleston, SC

RESEARCH EXPERIENCE

- Worked on a model for chemotherapy drug administration in prostate cancer under Dr. H Jain at Florida State University
- Designed mathematical models for HIV and feral cat populations at Francis Marion University
- Interviewed patients, helped with enrollment paperwork, input patient histories and visit information into database for a free medical clinic in Darlington, SC

- Studied and compiled basic clinical trial protocols for medical research studies and pharmaceutical development at Eastern Carolina University
- Modeled the viability of solar panels and other renewable resources in South Carolina for Santee Cooper Electric
- Wet laboratory experience in the form of sample collections, using laboratory instruments to observe sample properties, and data entry and analysis at the USDA

CONFERENCE PRESENTATIONS

May 2020 – Biology and Medicine Through Mathematics Conference – Poster Accepted: “Using Network Modeling to Understand the Relationship Between SARS CoV-1 and SARS CoV-2”

October 2018 – Pop Culture/American Culture Association in the South – Paper Presented: “A Study of Male Friendship in Literature: Comparisons Between Knowles’ *A Separate Peace* and Steinbeck’s *Of Mice and Men*”

PROFESSIONAL MEMBERSHIPS

2017-Present Kappa Mu Epsilon, Mathematics Honor Society, FMU Chapter

2017-Present Sigma Gamma Epsilon, Chemistry Honor Society, FMU Chapter