

EDUCATION

St. Mary's College of Maryland (SMCM) Bachelor of Science in Mathematics and International Languages and Cultures: Spanish • Minors in Applied Mathematics and History • Summa Cum Laude • Phi Beta Kappa	St. Mary's City, MD May 2022
 Senior Award in Mathematics University of Florida Doctor of Philosophy in Mathematics Entered program August 2022 Studied mathematical biology 	Gainesville, FL Expected May 2027
Work Experience Graduate Teaching Assistant Analytic Geometry and Calculus 1 and Survey of Calculus 1 • Taught weekly discussion classes to review lecture material • Led office hours and review sessions to address individual student questions • Graded and proctored quizzes and exams	Fall 2022 – Present University of Florida
 Undergraduate Teaching Assistant Calculus II, Vector Calculus, and Differential Equations Math TA Award (2020-21 School Year) Graded and offered feedback on assignments Led review sessions and assisted with small group activities 	Fall 2020 – Spring 2022 SMCM
 Private Calculus Tutor Calculus I, Calculus II, Multivariable Calculus, and Differential Equations Prepared notes to supplement class instruction Personalized activities for the needs of the student Explained solutions for practice problems and led study sessions 	Fall 2020 – Fall 2021 Virtual
 Mathematics Tutor Office of Student Support Services Offered tutoring for various lower-level and upper-level mathematics courses Supplemented class instruction with additional explanations Helped students prepare for exams 	Spring 2022 SMCM
 Student Ambassador Office of Admissions Gave campus tours to interested students and their families Assisted with admissions mailings and other office work Worked open houses and engaged with potential applicants 	Fall 2021 – Spring 2022 SMCM

Senior Project in Mathematics

Spring 2022

Role of mixotrophic zooplankton in seasonally-forced plankton blooms

SMCM

- Awarded best student presentation at Spring 2022 MD-DC-VA MAA Sectional Conference
- Created ODE mixotrophic plankton model with seasonal light intensity
- Used MatLab to solve model and investigate causes of plankton blooms
- Advised by Dr. Seth Cowall

St. Mary's Project

Fall 2021 - Spring 2022

Modeling CAR T-cell immunotherapy treatment of hematological cancer and CRS toxicity

SMCM

- Created ODE blood cancer immunotherapy model that tracked toxicity from the treatment
- Solved model in R and conducted stability and sensitivity analyses
- Presented results to faculty and peers
- Advised by Dr. Alex Meadows and Dr. Emek Köse

Research Experience for Undergraduates

June 2021 - July 2021

Texas Tech University

Virtual

- Presented research at the RedRaider Minisymposium virtual poster session in August 2021
- Developed on a PDE model of the Brownian movement of bacteria with limited food
- Gave weekly progress report presentations to other REU participants and advisors
- Created a final written report, poster, and presentation of the research results

LEADERSHIP AND CAMPUS INVOLVEMENT

Secretary Fall 2021 – Spring 2022

SIAM and AWM Student Chapters

SMCM

- Created records of Executive Board meetings
- Planned and participated in chapter events
- Encouraged new SIAM and AWM student membership

Treasurer Fall 2020 – Spring 2022

Equestrian Club SMCM

- Managed finances and budget of the club
- Calculated member costs and organized fee collection
- Organized fundraisers and volunteered at barn activities

Resident Fall 2019, Fall 2020 – Spring 2022

Women in Science Housing

SMCM

- Lived in supportive environment with other women interested in STEM
- Attended meetings with female faculty to learn about their research and receive advice
- Helped organize events to encourage participation in STEM for middle school girls

Additional Skills

Foreign Language: Spanish

Math Programs: LATEX, MatLab, R