SUSAN ROGOWSKI

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EDUCATION

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RESEARCH INTERESTS

Mathematical Modeling of Biological processes: I am interested in using Mathematics to answer Biological questions. In particular, my research has focused on developing algorithms for parameter estimation techniques for biological models such as bacteria and SIR-type models.

ACADEMIC AWARDS AND HONORS

Bettina Zoeller Richmond Endowed FundApril 2023Betty Anne Busbee Case Graduate FellowshipApril 2022Clara Kibler Davis Scholarship, Florida State UniversityApril 2021& April 2022& April 2022Graduate Ambassadorship, Women and Math Program at the Institute for Advanced StudyAugust 2018Summer Research Award, Wake Forest UniversityMarch 2018

JOURNAL ARTICLES

- Luo, R., Herrera-Reyes, A. D., Kim, Y, Rogowski, S., Smirnova, A, and White, D. (2023). Parameter Estimation for COVID-19 SVIRD Model Using Predictor-Corrector Algorithm. [Submitted to Springer Contributed Book "Mathematical Modeling for Women's Health Collaborative Workshop for Women in Mathematical Biology"]
- 2. Rogowski, S., Farhat, A., Cogan, N., Martinez, V. (2023). Recovering the Growth Rate of a Population from a Nonliniar System Using Partial and Noisy Observations. *[In Preperation]*

PROGRAMMING LANGUAGES & SOFTWARE

MatLab, LaTeX XPPAUT, SAS, Python Mathematica Proficient Intermediate Proficiency Beginner Proficiency

SELECTED PRESENTATIONS & WORKSHOPS

Parameter Estimation for COVID-19 Model Using Predictor-Corrector Algorithm Society for Mathematical Biology (SMB) Annual Meeting The Ohio State University	July 2023
Parameter Estimation for COVID-19 Model Using Predictor-Corrector Algorithm Biology and Medicine through Mathematics (BAMM) Virginia Commonwealth University	May 2023
Recovering the Growth Rate of Bacteria using Data Assimilation Math for All Conference Tulane University	February 2023
Parameter Estimation Using Nudging on the Logistic Growth Equation AWM Poster Session at the SIAM Annual Conference Pittsburgh, PA	July 2022
On Stable Estimation of Disease Parameters and Forecasting in Epidemiology Collaborative Workshop for Women in Mathematical Biology: Mathematical Approaches to Support Womens Health Institute for Mathematics and it's Applications	June 2022
Parameter Estimation Using Nudging on the Logistic Growth Equation BAMM Conference Poster Session Virginia Commonwealth University	May 2022
An Introduction to Modeling Biofilm-Mediated Bacteria in a Water Supply Network HIGSA Talks Florida State University	April 2021
Modeling the Effects of Carboplatin & Taxol on Breast Cancer Cells Math for All Conference Tulane University	March 2020
Presented Modeling DNA Replication using the sine-Gordon Equation at:	
Conference on Quantitative Approaches in Biology Poster Session NSF-Simmons Center for Quantitative Biology	September 2019
Graduate Student & Postdoc Research Day Poster Session Wake Forest University	April 2019
Piedmont-Triad Association for Women in Mathematics (AWM) Conference Wake Forest University	March 2019

TEACHING EXPERIENCE

Instructor of Record, Florida State University Subject: Pre-Calculus, Calculus I, Calculus II	August 2021 - Present
Teaching Assistant , Florida State University Subjects: Discrete Math, Ordinary Differential Equations, Pre-Calculus, Conculus, Math for Liberal Arts	August 2019 - Present llege Algebra, Business Cal-
Mathematics Instructor, Governor's School of North Carolina	June - July 2019
Math Tutoring Center Teaching Assistant, Wake Forest University	August 2018 - May 2019
Teaching Assistant , Wake Forest University Subjects: Linear Algebra, Real Analysis	June 2018 - May 2019
Mathematics Tutor, Math Tutoring Center, Wake Forest University Subjects: Pre-Calculus, Calculus I - III, Linear Algebra, Real Analysis	August 2017 - May 2019
Private Mathematics Tutor Subjects: High School Algebra, Calculus I-III, Partial Differential Equations, tions	Nov 2017 - Present Ordinary Differential Equa-

SERVICE

Volunteering:	
• Association for Women in Math (AWM) Campus Chapter Mentor	Jan 2018 - Present
• Florida State University Math Fun Day	Feb 2021 & March 2023
• Heart Math Tutoring	Jan 2021 - May 2021
• Co-Organizer for AWM Piedmont-Triad Conference	March 2019
• Wake Forest Math Counts program	Feb 2019
Leadership:	
• Florida State AWM Campus Chapter President	August 2023 - Present
• Congress of Graduate Students Speaker	July 2023 - Present
• Congress of Graduate Students Deputy Speaker for Finance	September 2022 - May 2023
• Florida State AWM Campus Chapter Treasurer	Aug 2021 - August 2023
• Hispanic Graduate Student Association Treasurer & Vice President	Aug 2021 - May 2022
• Wake Forest AWM Campus Chapter President	Aug 2018 - May 2019