

Education

North Carolina State University Raleigh, NC Expected 2024

PhD Candidate in Pure Mathematics

Mount Holyoke College South Hadley, MA 2019

Mathematics Major/Computer Science Minor – Cum Laude

Publications

The Nimbers of Node-Kayles on Certain Families of Graphs 2020

S. Brown, S. Daugherty, E. Fiorini, B. Maldonado, S. Rainville, R. Waechter, T. Wong

OEIS Sequences: A316533, A316629, A316632, A316781 Summer 2018

Research Interests: Enumerative & Algebraic Combinatorics

Coursework: Abstract Algebra I & II, Combinatorics I & II, Analysis I, Linear Algebra, Intro to Topology, Combinatorics of Coxeter Groups, Graph theory, C/C++/Python for Mathematics, Teaching in the Math Department, Computer Algebra I & II

Experience

Instructor of Record NCSU, Raleigh, NC. 2020-

MA114 Intro Finite Math with Applications, MA231 Calculus for Life & Management Sciences

Teaching Assistant NCSU, Raleigh, NC 2019-2020

MA141 Calculus I, MA241 Calculus II

Mathematics Researcher at the Muhlenberg College REU Allentown, PA Summer 2018

Participant in the 2018 Research Experience for Undergraduates: Research Challenges of

Identifying Integer Sequences Using the OEIS at Muhlenberg College

Mathematics Research Assistant Mount Holyoke College, South Hadley, MA. Summer 2017

Built models to understand resilience and tipping points in dynamical systems

Awards, Fellowships, Scholarships

Graduate Fellowship \$2000 yearly @ NCSU 2019 – 2022

21st Century Leadership Scholarship \$25,000 yearly @ Mount Holyoke College 2015 – 2019

The Class of 1937 Prize in Mathematics for Outstanding Achievement in Mathematics 2018

Mildred L Sanderson Prize for Mathematics for Excellence in the First Year 2016

Top Quartile Scorer Putnam Exam 2015 2016

Skills: Java, Sage, Python, Algorithm Design, Microsoft Offices, Adobe Creative Suite,

MATLAB, Netlogo / Agent-Based Modelling, LaTeX