

Tommy Meek

tommymeek123@gmail.com (828) 508-3433
<https://www.linkedin.com/in/tommymeek123/>
<https://github.com/tommymeek123>

EDUCATION

- **Master of Science, Mathematics** | GPA: 3.88
Wake Forest University
Winston-Salem, NC
May 2023
- **Bachelor of Science, Mathematics, Computer Science** | GPA: 3.92
Western Carolina University
Cullowhee, NC
May 2021
- **Associate of Science** | GPA: 4.00
Southwestern Community College
Sylva, NC
December 2018

TECHNICAL SKILLS

- **Proficient with:** Python, Java, JavaScript, Haskell, MATLAB, Git, \LaTeX
- **Familiar with:** C, C++, MIPS, Rust, HTML, CSS, SQL, R, Bash, PowerShell, Vim, Macaulay2

PROFESSIONAL EXPERIENCE

- **Teaching Assistant** | Wake Forest University
August 2021 - May 2023
 - Led weekly study sessions to ensure student success and taught courses in the absence of the professor.
 - Tutored undergraduate students in a one-on-one setting and in groups as large as 20.
 - Graded up to 50 student assignments per week while maintaining a full-time graduate course load.
- **Math/Computer Science Tutor** | Western Carolina University
August 2019 - July 2021
 - Voted *Most Valuable Tutor* by coworkers and peers.
 - Tutored undergraduate students in a one-on-one setting and in groups as large as 15.
 - Mentored up to 30 walk-in clients per day for all math and computer science courses.
 - Assisted in the instruction of computer science lab courses of up to 40 students by answering questions and verifying the accuracy of their Python or Java lab assignments.
- **Table Games Dealer** | Harrah's Cherokee Casino
September 2009 - July 2019
 - Proficiently dealt casino games including craps and blackjack at a high pace.
 - Provided service and entertainment to up to hundreds of guests per day.
 - Ensured game security by being mindful of all active players and other nearby guests.

RESEARCH

- Master's thesis: "A Functional Computer Algebra System for Polynomials"
- "An Axiomatic and Contextual Review of the Armitage and Doll Model of Carcinogenesis"
Published in *Spora: A Journal of Biomathematics* Volume 8 (2022)
- "Algebraic Properties of a Hypergraph Lifting Map"
Published in *Integers* Volume 21 (2021)
- "Avoiding Monochromatic Sub-paths in Uniform Hypergraph Paths and Cycles"
Available at <https://arxiv.org/abs/2003.00035>

PRESENTATIONS

Thesis Defense

A Functional Computer Algebra System for Polynomials

Wake Forest University | Winston-Salem, NC | April 13, 2023

UNCG Regional Mathematics and Statistics Conference (Virtual)

Avoiding Blue Edges in 3-uniform Hyperpaths

University of North Carolina Greensboro | Greensboro, NC | November 14, 2020

WCU SURP Symposium (Virtual)

Algebraic Properties of a Hypergraph Lifting Map

Western Carolina University | Cullowhee, NC | October 16, 2020

SCC Lunch and Learn

Canceled due to COVID-19

Undergraduate Research at Western Carolina University

Southwestern Community College | Sylva, NC | March 20, 2020

Mathematical Association of America Southeastern Section Meeting

Canceled due to COVID-19

Avoiding Blue Edges in 3-uniform Hyperpaths

High Point University | High Point, NC | March 13, 2020

Joint Mathematics Meetings Undergraduate Student Poster Session

Monochromatic Subhypergraphs in Stochastic Processes on Hypergraphs

Colorado Convention Center | Denver, CO | January 17, 2020

AWARDS AND ACHIEVEMENTS

- 2020-2021 WCU Senior Mathematics Award
- 2020-2021 WCU Advanced Computer Science Award
- 2020-2021 WCU Dean's Outstanding Scholar in Mathematics
- Score of 10 on the 2020 William Lowell Putnam Mathematical Competition

GRANTS AND SCHOLARSHIPS

- 2022 Wake Forest summer thesis grant \$3,000.00
- 2020-2021 L.E.A.R.N. Scholarship \$2,000.00
- 2020-2021 Breitenbach Scholarship \$1,381.00
- 2020-2021 George A. Milton Scholarship \$1,213.00
- 2020 SURP research grant \$5,300.00
- 2019-2020 CURM research grant \$3,000.00