Tommy Meek

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https://github.com/tommymeek123

EDUCATION

- **Master of Science, Mathematics** | GPA: 3.88   Winston-Salem, NC
  Wake Forest University   May 2023

- **Bachelor of Science, Mathematics, Computer Science** | GPA: 3.92   Cullowhee, NC
  Western Carolina University   May 2021

- **Associate of Science** | GPA: 4.00   Sylva, NC
  Southwestern Community College   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 twenty.
  - Graded up to fifty 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 fifteen.
  - Mentored up to thirty walk-in clients per day for all math and computer science courses.
  - Assisted in the instruction of computer science lab courses of up to forty 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

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