

MICHAEL N WESELCOUCH

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EMPLOYMENT

Assistant Professor <i>Roanoke College</i>	2024 - <i>Salem, VA</i>
Lecturer <i>Roanoke College</i>	2020 - 2024 <i>Salem, VA</i>
Visiting Assistant Professor <i>Wake Forest University</i>	2019 - 2020 <i>Winston-Salem, NC</i>

EDUCATION

Ph.D. in Mathematics <i>North Carolina State University</i> Advisor: Dr. Ricky Ini Liu	2019 <i>Raleigh, NC</i>
M.S. in Mathematics <i>North Carolina State University</i>	2016 <i>Raleigh, NC</i>
B.A in Mathematics <i>Assumption College</i> Minor in Computer Science	2014 <i>Worcester, MA</i>

PUBLICATIONS

- Math and Minecraft?**
Mathematics Horizons Volume 31 Issue 4 (2024).
- Multivariable Lucas Polynomials and Lucanomics**, (with K. Riley and E. Allen),
Integers Volume 21 (2021).
- P-Partitions and Quasisymmetric Power Sums**, (with R. Liu),
International Mathematics Research Notices, Volume 2021 (2021).
- P-Partition Generating Function Equivalence of Naturally Labeled Posets**, (with R. Liu),
Journal of Combinatorial Theory, Series A, Volume 170 (2020).
- Patterns in Inversion Sequences**, (with S. Corteel, M. Martinex, C. Savage),
Discrete Math. Theor. Comput. Sci. Volume 18 (2016), no. 2.
- Proofs of Ruehr's Identities**, (with S. Meehan, A. Tefera, A. Zeleke),
Integers, Volume 14 (2014).

PREPRINTS

- Approximating Mathematical Constants using Minecraft**, (with M. Lynch),
To appear in *Mathematics Magazine*.

SUPERVISED UNDERGRADUATE RESEARCH PROJECTS

- Analyzing Roanoke College Baseball Data with R**, with Anthony Jablonski (RC 25).
- Applying Counterfactual Regret Minimization to Mind Your Numbers**, with Brayley Whitcomb (RC 23).
- Multivariable Lucas Polynomials and Lucanomics***, with Katherine Riley (WFU 20).

*resulted in a paper

HONORS AND AWARDS

Section NExT Fellow, 2023 (MD-DC-VA Section of MAA)

The Honors Award in Mathematics, Assumption College, 2014

TALKS AND PRESENTATIONS

MD-DC-VA MAA Sectional Meeting, April 2024.

Hampden-Sydney College Math and Computer Science Department Colloquium Series*, October 2023.

Longwood University Mathematics, Computer Science*, September 2022.

Hollins University Mathematics, Statistics, and Computer Science*, March 2020.

York University Applied Algebra Seminar*, December 2019.

Joint Mathematics Meetings 2019, Baltimore, MD, January 2019.

FPSAC 2018 Poster Session, Dartmouth College, July 2018

Triangle Area Graduate Mathematics Conference, UNC Chapel Hill, April 2018.

Graduate Student Combinatorics Conference, University of Texas at Dallas, April 2018.

Triangle Area Graduate Mathematics Conference, North Carolina State University, November 2017.

PROFESSIONAL MEMBERSHIPS

American Mathematical Society, Kappa Mu Epsilon

National Honorary Mathematics Society, Pi Mu Epsilon

TEACHING WORKSHOPS/SEMINARS

Graduate Student Course Development Seminar, North Carolina State University, Summer 2018

Fall and Spring Graduate Student Teaching Workshops, North Carolina State University, 2014-2015

ADDITIONAL SKILLS

Strong programming skills - C++, Python, R

Actuary Exam P (Passed)

SERVICE AND OUTREACH

Organizer for Minton Invitational MCSP Community Ping Pong Tournament - 2024

Academic Integrity Council - 2022 - Present

Roanoke College Stat Crew - 2022 - Present

Referee for *Discrete Mathematics & Theoretical Computer Science*; *Algebraic Combinatorics*

Mathcounts - Volunteer 2020

AWM Mentoring Group - 2019, 2020

Bugfest - Volunteer 2018, 2019

*Invited

TEACHING EXPERIENCE

MATH 111	Math Models/Management Science	Roanoke College	Summer 2024
INQ 241	Running the World Efficiently	Roanoke College	Spring 2024
INQ 240	Here's to Your Health	Roanoke College	Spring 2024
MATH 122	Calculus II	Roanoke College	Spring 2024
ROA 216	Internship	Roanoke College	Fall 2023
STAT 406	Independent Study & Research	Roanoke College	Fall 2023
MATH 201	Linear Algebra	Roanoke College	Fall 2023
MATH 121	Calculus I	Roanoke College	Fall 2023
INQ 240	Here's to Your Health	Roanoke College	Fall 2023
MATH 405	Independent Study & Research	Roanoke College	Spring 2023
INQ 241	Running the World Efficiently	Roanoke College	Spring 2023
INQ 240	Here's to Your Health	Roanoke College	Spring 2023
INQ 241	Running the World Efficiently	Roanoke College	Fall 2022
INQ 240	Here's to Your Health	Roanoke College	Fall 2022
MATH 121	Calculus I	Roanoke College	Fall 2022
MATH 201	Linear Algebra	Roanoke College	Spring 2022
MATH 111	Math Models/Management Science	Roanoke College	Spring 2022
INQ 240	Here's to Your Health	Roanoke College	Spring 2022
MATH 111	Math Models/Management Science	Roanoke College	Fall 2021
INQ 240	Here's to Your Health	Roanoke College	Fall 2021
MATH 201	Linear Algebra	Roanoke College	Fall 2021
MATH 121	Calculus I	Roanoke College	Spring 2021
MATH 111	Math Models/Management Science	Roanoke College	Spring 2021
INQ 240	Here's to Your Health	Roanoke College	Spring 2021
MATH 111	Math Models/Management Science	Roanoke College	Fall 2020
INQ 240	Here's to Your Health	Roanoke College	Fall 2020
MST 121	Linear Algebra	Wake Forest University	Spring 2020
MST 111	Calculus I	Wake Forest University	Spring 2020
MST 111	Calculus I	Wake Forest University	Fall 2019
MA 242	Calculus III	North Carolina State University	Fall 2017
MA 242	Calculus III	North Carolina State University	Summer 2017
MA 242	Calculus III	North Carolina State University	Spring 2017
MA 242	Calculus III	North Carolina State University	Fall 2016
MA 242	Calculus III	North Carolina State University	Summer 2016
MA 241	Calculus II	North Carolina State University	Spring 2016
MA 241	Calculus II	North Carolina State University	Fall 2015