

MICHAEL N WESELCOUCH

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EMPLOYMENT

Lecturer <i>Roanoke College</i>	2020 - <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

Multivariable Lucas Polynomials and Lucanomials, (with K. Riley and E. Allen), *Integers* Volume 21 (2021).

P-Partitions and Quasisymmetric Power Sums, (with R. Liu),
to appear in *International Mathematics Research Notices* available at arXiv:1903.00551..

P-Partition Generating Function Equivalence of Naturally Labeled Posets, (with R. Liu),
Journal of Combinatorial Theory, Series A 170 (2020).

Patterns in Inversion Sequences, (with S. Corteel, M. Martinex, C. Savage), *Discrete Math. Theor. Comput. Sci.* 18 (2016), no. 2.

Proofs of Ruehr's Identities, (with S. Meehan, A. Tefera, A. Zeleke), *Integers* 14 (2014).

RESEARCH INTERESTS

Algebraic and enumerative combinatorics
P-Partition generating functions, Lucanomials, pattern avoiding inversion sequences

PAST COURSES

Here's to Your Health
Math Models/Management Science
Calculus I
Calculus II
Calculus III
Linear Algebra

HONORS AND AWARDS

The Honors Award in Mathematics, Assumption College, 2014

TALKS AND PRESENTATIONS

Hollins University Mathematics, Statistics, and Computer Science, March 2020 (Invited)

Applied Algebra Seminar, York University, December 2019 (Invited).

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

RESEARCH EXPERIENCE

Research Assistantship

Graduate Research Assistant

Advisor: Ricky Liu

Spring 2018 - Spring 2019
North Carolina State University

Research Experience for Graduates

Graduate Research Assistant

Advisor: Carla Savage

Summer 2015
North Carolina State University

Research Experience for Undergraduates

Undergraduate Research Assistant

Advisor: Akalu Tefera

Summer 2012
Grand Valley State University

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

OUTREACH

Mathcounts - Volunteer 2020

AWM Mentoring Group - 2019, 2020

Bugfest - Volunteer 2018, 2019

PROFESSIONAL SERVICE

Referee for Discrete Mathematics & Theoretical Computer Science