

# William C. Newman

## Education

2020 - Present **PhD in Mathematics** *The Ohio State University*  
2016 - 2020 **Bachelor of Science in Mathematics** *University of Michigan*

## Research Papers

**The Integral Chow Rings of  $M_{1,n}$  via Higher Chow Groups for  $n \leq 4$**  *In Preparation*  
**Injectivity of Quadratic Self Maps of  $P^2$**  w/ Michael E. Zieve *In Preparation*  
**Generalized Redei Morphisms** w/ Michael E. Zieve *In Preparation*

## Seminar Presentations

***Chow Rings of Moduli Spaces Via Higher Chow Groups:***  
Sep 2024 **The Ohio State University** Algebraic Geometry Seminar  
Sep 2024 **ETH Zurich** Moduli Seminar

## Awards

Aug 2024 **Research Training Grant Funding for Fall 2024**  
Aug 2023 **Research Training Grant Funding for Fall 2023**  
Aug 2020 **Distinguished University Fellowship**

## Conferences Attended

Nov 2024 **AlGeCom**  
Oct 2024 **Tevelev Degrees**  
May 2024 **Workshop of the Kentucky-Ohio Algebra Alliance**  
May 2024 **Local Systems in Algebraic Geometry**  
Jul 2023 **AGNES Summer School - Intersection Theory on Moduli Spaces**  
Jun 2023 **Arithmetic, Birational Geometry, and Moduli Spaces**  
May 2023 **Workshop of the Kentucky-Ohio Algebra Alliance**  
Oct 2022 **AlGeCom**  
Jul 2022 **Derived Categories, Moduli Spaces, and Hyperkähler Varieties**

## Leadership

May 2021 - Present **OSU Cycle Committee Member**  
Apr 2022 - Apr 2024 **Organizer of the OSU Student AG Seminar**

## Outreach

Jul 2022, Jul 2023, Jul 2024 **Buckeye Aha Math Moments Camp Counselor**  
Aug 2021 - Present **OSU Cycle Mentor**

## Student Seminar Presentations

Nov 2024  **$M_{0,n}$  and  $\bar{M}_{0,n}$**  *OSU Student AG Seminar*  
Aug 2024 **Chow 101** *OSU Student AG Seminar*  
Apr 2024 **Rational Curves on K3 Surfaces** *OSU Student AG Seminar*  
Jan 2024 **A Diophantine Equation** *OSU Student Number Theory Seminar*  
Nov 2023 **Chow 102** *OSU Student AG Seminar*

Sep 2023 **Moduli Spaces** *OSU Math Graduate Student Association Seminar*  
 Sep 2023 **The Jacobian Conjecture** *OSU Student AG Seminar*  
 Jul 2023 **Candidacy Presentation** *The Ohio State University*  
 Apr 2023 **Curves through 3d-1 points** *OSU Student AG Seminar*  
 Oct 2022 **Chow Groups and Motives** *OSU Student AG Seminar*  
 Sep 2022 **Counting Conics** *OSU Student AG Seminar*  
 Mar 2022 **Semistable Reduction of Curves** *OSU Student AG Seminar*  
 Sep 2021 **Injective Quadratic Maps  $P^2 \rightarrow P^2$**  *OSU Student AG Seminar*

## Teaching

Spring 2024 **Math 1126 - Math for Elementary School Teachers 2**  
 Spring 2023 **Math 2173 - Engineering Math B**  
 Fall 2022 **Math 2173 - Engineering Math B**  
 Spring 2022 **Math 1172 - Engineering Math A**  
 Fall 2021 **Math 1151 - Calculus 1**