William C. Newman

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Education

PhD	**The Ohio State University**, Mathematics	Aug 2020 – (May 2026)

- Advisor: Hsian-Hua Tseng

BS	**University of Michigan**, Mathematics	Aug 2016 – May 2020

Preprints

Chow rings of moduli spaces of genus 0 curves with collisions   Jan 2026
https://arxiv.org/abs/2601.16415 ↗

Tame nodal stacky curves with Martin Bishop   Sep 2025
https://arxiv.org/abs/2509.20629 ↗

The first higher Chow groups of $\mathcal{M}_{1,4}$ for $n \leq 4$ Aug 2025
https://arxiv.org/abs/2508.20264 ↗

Injective quadratic self-maps of $\mathbb{P}^2$ with Michael E. Zieve   In Preparation

Orbifold Tevelev degrees with Deniz Genlik and Hsian-Hua Tseng   In Preparation

Torsion motives of Enriques surfaces with Jake Huryn   In Preparation

Seminar Presentations

Injective quadratic self-maps of $\mathbb{P}^2$ Nov 2025
The Ohio State University Algebraic Geometry Seminar

The first higher Chow groups of $\mathcal{M}_{1,4}$ for $n \leq 4$ Apr 2025
University of Illinois Urbana-Champaign Algebraic Geometry Seminar

The first higher Chow groups of $\mathcal{M}_{1,4}$ for $n \leq 4$ Sep 2024
ETH Zürich Algebraic Geometry and Moduli Seminar

The first higher Chow groups of $\mathcal{M}_{1,4}$ for $n \leq 4$ Sep 2024
The Ohio State University Algebraic Geometry Seminar

Awards

Research Training Grant Semester Funding   F 2023, F 2024, Sp 2026

Distinguished University Fellowship   Aug 2020

Outreach

OSU Cycle Mentor   Aug 2021 - Present

OSU Cycle Committee Member   May 2021 - Present

Buckeye Aha Math Moments Camp Counselor   Su 2022, Su 2023, Su 2024

Seminar Orginazation

Motives in May   May 2025
Website ↗

Teaching

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

Student Seminar Talks

Contravariant Chow Groups OSU Student AG Seminar   Sep 2025

Intersections of Plane Curves OSU Math Graduate Student Association Seminar   Mar 2025

$\mathcal{M}_{0,n}$ **and** $\overline{\mathcal{M}}_{0,n}$ OSU Student AG Seminar   Nov 2024

Chow 101 OSU Student AG Seminar   Aug 2024

Rational Curves on $K3$ **Surfaces** OSU Student AG Seminar   Apr 2024

A Diophantine Equation OSU Student Number Theory Seminar   Jan 2024

Chow 102 OSU Student AG Seminar   Nov 2023

Moduli Spaces OSU Math Graduate Student Association Seminar   Sep 2023

Chow 101 The Jacobian Conjecture   Sep 2023

Candidacy Presentation The Ohio State University   Jul 2023

Rational Curves through $3d - 1$ **Points** OSU Student AG Seminar   Mar 2023

Chow Groups and Motives OSU Student AG Seminar   Oct 2022

Counting Conics OSU Student AG Seminar   Sep 2022

Semistable Reduction OSU Student AG Seminar   Mar 2022

Injective Quadratic Maps $\mathbb{P}^2 \dashrightarrow \mathbb{P}^2$ OSU Student AG Seminar   Sep 2021