

Tyler Dunaisky

CONTACT	tdunaisk@purdue.edu	
EDUCATION	2022 – present	Ph.D. in Mathematics Purdue University, West Lafayette, IN
	2018 – 2022	B.A. in Mathematics Reed College, Portland, OR
RESEARCH	<i>Representations of the flat space wavefunction</i> , preprint available at arxiv.org/abs/2601.17619 . <i>Portraits of quadratic rational maps with a small critical cycle</i> , with David Krumm. Journal of Number Theory 275 (2025), 135-159. <i>Dynamics of quadratic rational maps with maximal automorphism group</i> , undergraduate thesis. Available at rdc.reed.edu .	
TALKS	<i>Cosmological correlators and triangulating the dual cosmological polytope</i> , Western University, Geometry and Combinatorics Seminar (London, Ontario - April 2026). <i>Cosmological correlators and triangulating the dual cosmological polytope</i> , University of Waterloo, Algebraic and Enumerative Combinatorics Seminar (Waterloo, Ontario - April 2026).	
TEACHING	2023 – present	Purdue University (Primary Instructor)
	Spring 2026	MA 16020: Applied Calculus II
	Fall 2025	MA 16020: Applied Calculus II
	Spring 2025	MA 16020: Applied Calculus II
	Fall 2024	MA 16020: Applied Calculus II
	Spring 2024	MA 16010: Applied Calculus I
	Fall 2023	MA 15800: Precalculus
	2022 – 2023	Purdue University (Teaching Assistant)
	Summer 2023	MA 26100: Multivariate Calculus
	Spring 2023	MA 16200: Calculus II
	Fall 2022	MA 16100: Calculus I
	2021 – 2022	Reed College (Grader)
	Fall 2021	MA 321: Real Analysis
AWARDS	2026 – 2027	Shreeram Abhyankar Endowment - Geometry Purdue University
	2018 – 2022	Commended for Excellence in Scholarship Reed College
	2018 – 2022	National Merit Scholar
SKILLS	Java, Macaulay2, Python, L ^A T _E X	