

ETHAN COHEN
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EDUCATION

Yale University Ph.D. in Mathematics Advisor: Prof. Sebastian Hurtado	2022–present
University of Michigan, Ann Arbor M.S. in Mathematics (concurrent with B.S.) B.S. in Honors Mathematics with a minor in Physics	2018–2022

AREAS OF INTEREST

Random and deterministic dynamics of Kähler surfaces; smooth dynamics and Pesin theory.

PUBLICATIONS AND PREPRINTS

The measure of maximal entropy for random skew products on compact complex surfaces <i>Preprint, arXiv:2606.09031</i>	2026
A real K3 automorphism with most of its entropy in the real part <i>Preprint, arXiv:2506.03479; code: GitHub</i>	2025

TEACHING AND MENTORING

Yale University, Discrete Mathematics — <i>Grader</i>	Spring 2026
Yale University, Calculus I — <i>Instructor</i>	Fall 2025
Yale University, Directed Reading Program on Circle Dynamics — <i>Mentor</i>	Spring 2025
Yale University, Calculus I — <i>Instructor</i>	Fall 2024
Yale University, Introductory Complex Analysis — <i>Grader</i>	Fall 2023
Yale University, Linear Algebra — <i>Teaching Assistant</i>	Fall 2023
Yale University, Intermediate Complex Analysis — <i>Grader</i>	Winter 2023
Yale University, Calculus II — <i>Coach</i>	Fall 2022

INVITED TALKS

Felix Klein Seminar, University of Notre Dame — <i>Entropy of real automorphisms in K3 dynamics</i>	November 2025
Dynamics Seminar, University of Chicago — <i>Entropy of real automorphisms in K3 dynamics</i>	October 2025

CONTRIBUTED TALKS

Dynamics Students Days — <i>The measure of maximal entropy for skew products over Kähler surfaces</i>	Spring 2026
Learning Seminar in Dynamics — <i>Two lectures on coding of Anosov diffeomorphisms</i>	Spring 2026
PSU Workshop in Dynamical Systems — <i>The measure of maximal entropy for skew products over Kähler surfaces</i>	Fall 2025
Yale Graduate Student Seminar — <i>Dynamics of polynomial automorphisms of \mathbb{C}^2</i>	Spring 2025
Learning Seminar in Geometry	Fall 2024
Working Seminar in K3 Dynamics — <i>The Gromov–Yomdin entropy formula</i>	Spring 2024
Yale Graduate Student Seminar — <i>Horseshoes and hand grenades</i>	Spring 2024
Working Seminar in Mostow Rigidity	Fall 2022

AWARDS

Michigan Mathematics Merit Scholar Award	2021
Evelyn O. Bychinsky Award in Mathematics	2020

OUTREACH

Academic Games Head Coach — <i>Tappan Middle School</i>	2018–2022
· Instructed students in mathematics, linguistics, history, and logic.	
· Qualified team for the 2019 AGLOA national tournament; the 2020 and 2021 tournaments were cancelled for Covid.	