Axel Kodat

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Department of Mathematics CUNY Graduate Center 365 5th Ave New York, NY 10016

Education

CUNY Graduate Center
PhD Program in Mathematics
Advisor: Enrique Pujals

Swarthmore College
BA with High Honors in Mathematics and Philosophy

Preprints

An average intersection estimate for families of diffeomorphisms 2024 with Michael Shub, arXiv:2403.17349

Talks

Dynamical Systems Seminar IMPA, Rio de Janeiro, BR	Feb 2024
From dynamics to complexity, and back again: a conference in celebration of Michael Shub's 80th Birthday IMERL, Universidad de La República, Montevideo, UY	Jan 2024
Complex Analysis & Dynamics Seminar, CUNY Graduate Center • "An average intersection estimate for families of diffeomorphisms"	Dec 2023
Learning Seminar on Ergodic Theory & Dynamical Systems, CUNY GC	
"Introduction to the entropy conjecture"	Dec 2023
"Distortion elements in diffeomorphism groups"	Oct 2022
• "A Tits alterrnative for subgroups of circle homeomorphisms"	Feb 2022

Conferences

Symplectic dynamics in Montevideo Universidad de La República, Montevideo, UY	Feb 2024
From dynamics to complexity, and back again: a conference in celebration of Michael Shub's 80th Birthday Universidad de La República, Montevideo, UY	Jan-Feb 2024
Workshop in Dynamical Systems and Related Topics Penn State, State College, PA	November 2023
Partial Hyperbolicity Workshop & Summer School Brin Center, University of Maryland, College Park, MD	May-June 2023
Big Mapping Class Groups and Diffeomorphism Groups CIRM, Marseille, FR	October 2022
School on Dynamical Group Theory Université de Bourgogne, Dijon, FR	October 2022
Workshop on Dynamical Systems University of Maryland, College Park, MD	April 2022
Flexibility & Rigidity in Dynamical Systems Stony Brook University, Stony Brook, NY	March 2022
Midwest Dynamical Systems Conference Northwestern University, Chicago, IL	November 2021
<u>Teaching</u>	
Brooklyn College Math 1011: Precalculus (College Now)	Summer 2018

Delaware County Community College

Math 1401: Elementary Math from an Advanced Standpoint

Math 1201: Calculus I

Math 1206: Calculus II

Math 2201: Calculus III

Math Tutor 2015-2016

Fall 2018, Fall 2019

Spring 2020, Fall 2020

Spring 2021

Summer 2019

Fellowships & Awards

NSF Grant DMS-2400008: A description of surface dynamics PI: Enrique Pujals	2024-present
Special Projects Fellow, CUNY Academy for the Humanities & Sciences	2023-present
CUNY Initiative for the Theoretical Sciences, Simons Fellowship	2022-2023
Excellence in Teaching by a Doctoral Candidate Award (GC Math)	2021
NSF Grant DMS-1956022: Dynamics of surface maps PI: Enrique Pujals	2020-2022
Math/Graduate Center Fellowship, CUNY Graduate Center	2017-2022
Kitüntetéssel (Honors), Budapest Semesters in Mathematics	2013