Axel Kodat

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

Education

CUNY Graduate Center   2017-2025
PhD Program in Mathematics
Advisor: Enrique Pujals

Swarthmore College   2011-2015
BA with High Honors in Mathematics and Philosophy

Budapest Semeseters in Mathematics   Fall 2013
Kitüntetéssel (Honors)

Preprints

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

Talks

Workshop on Dynamical Systems   April 2024
University of Marlyand, College Park, MD

Dynamical Systems Seminar   Feb 2024
IMPA, Rio de Janeiro, BR

From dynamics to complexity, and back again: a conference in celebration of   Jan 2024
Michael Shub's 80th Birthday
IMERL, Universidad de La República, Montevideo, UY

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

Teaching

Brooklyn College

Math 1011: Precalculus (College Now)	Summer 2018
Math 1201: Calculus I	Fall 2018, Fall 2019
Math 1206: Calculus II	Spring 2021
Math 1401: Elementary Math from an Advanced Standpoint	Summer 2019
Math 2201: Calculus III	Spring 2020, Fall 2020

Delaware County Community College

Math Tutor	2015-2016

Conferences

Symplectic dynamics in Montevideo   Feb 2024
Universidad de La República, Montevideo, UY

From dynamics to complexity, and back again: a conference in   Jan-Feb 2024
celebration of Michael Shub's 80th Birthday
Universidad de La República, Montevideo, UY

Workshop in Dynamical Systems and Related Topics   November 2023
Penn State, State College, PA

Partial Hyperbolicity Workshop & Summer School   May-June 2023
Brin Center, University of Maryland, College Park, MD

Big Mapping Class Groups and Diffeomorphism Groups   October 2022
CIRM, Marseille, FR

School on Dynamical Group Theory   October 2022
Université de Bourgogne, Dijon, FR

Workshop on Dynamical Systems   April 2022
University of Maryland, College Park, MD

Flexibility & Rigidity in Dynamical Systems   March 2022
Stony Brook University, Stony Brook, NY

Midwest Dynamical Systems Conference   November 2021
Northwestern University, Chicago, IL

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