

Axel Kodat

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Department of Mathematics
CUNY Graduate Center
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New York, NY 10016

Education

CUNY Graduate Center

PhD Program in Mathematics

Advisor: Enrique Pujals

2017-present

Swarthmore College

BA with High Honors in Mathematics and Philosophy

2011-2015

Preprints

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

2024

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"
- "Distortion elements in diffeomorphism groups"
- "A Tits alternative for subgroups of circle homeomorphisms"

Dec 2023

Oct 2022

Feb 2022

Conferences

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

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
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Fellowships & Awards

Research Assistant, NSF Grant #2400008: A description of surface dynamics	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
Research Assistant, NSF Grant #1956022: Dynamics of surface maps	2020-2022
Math/Graduate Center Fellowship, CUNY Graduate Center	2017-2022
Kitüntetéssel (Honors), Budapest Semesters in Mathematics	2013