William Wood

Introduction

I have just finished my PhD student in the Department of Mathematics at UC Irvine, specializing in dynamical systems and spectral theory of ergodic Schrödinger operators. My advisor is Anton Gorodetski. My position as a visiting assistant professor at UC Riverside begins in the fall of 2024.

Publications

William Wood, "On the spectrum of the periodic Anderson–Bernoulli model", J. Math. Phys. 63, 102705 (2022) https://doi.org/10.1063/5.0096118

Jake Fillman, William Wood, "Infinitely many gaps in the spectrum of Anderson-Bernoulli Model", work in progress.

Anton Gorodetski, William Wood, "On Sums of Small Cantor Sets", Preprint.

William Wood, "Geometry of the Hyperoblic Locus in 3 Dimensions", Preprint.

Presentations

Sums of "Small" Cantor Sets
UC Irvine, Irvine, California, October 2023

Dynamical Applications to Studying the Spectrum of the Periodic Anderson-Bernoulli Model
"Periodic and Ergodic Spectral Problems" Summer School
Montreal, Canada, June 2023

Dynamical Applications to Studying the Spectrum of the Periodic Anderson-Bernoulli Model
UCR. Riverside, California, April 2023

Dynamical Applications to Studying the Spectrum of the Periodic Anderson-Bernoulli Model
AMS Spring Southeastern Sectional Meeting
Atlanta, Georgia, March 2023

Uniform Hyperbolicity and Random Word Model with a Spectrum with Infinitely Many Gaps
Semi-annual Workshop in Dynamical Systems and Related Topics
State College, Pennsylvania, November 2022

Uniform Hyperbolicity and the Periodic Anderson-Bernoulli Model
Analysis Seminar Rice University, Houston, Texas, September 2022

Uniform Hyperbolicity and the Periodic Anderson-Bernoulli Model
Houston Workshop on Hyperbolic Dynamical Systems
Houston, Texas, May 2022

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Workshops and Summer Schools Attended

Advanced Studies Institute in Analysis on Fractal Spaces & Dynamical Systems
Urgench, Uzbekistan. August 2023
https://www.fullerton.edu/ires-uz/asi/asi_fractalspaces/asi_fractal-dynamical.php

TXST Summer School in Mathematical Physics
San Marcos, Texas. July 2023
https://sites.google.com/site/jakefillman/summer-school-2023

SMS 2023: Periodic and Ergodic Spectral Problems
Montreal, Canada. June 2023
https://www.crmath.ca/en/activities/#/type/activity/id/3849

The 24th Midrasha Mathematicae: Random Schrödinger Operators and Random Matrices
Jerusalem, Israel. May 2023
https://iias.huji.ac.il/event/24th-midrasha-mathematicae

Beyond Uniform Hyperbolicity
Bedlwo, Poland. April 2023
https://www.impan.pl/en/activities/banach-center/conferences/23-buh

Houston Workshop on Hyperbolic Dynamical Systems
Houston, Texas. May 2022
https://www.math.uh.edu/ climenha/2022-workshop.html

Education

Period	**2017-2023**	
Degree	**PhD in Mathematics**	
University	**The University of California at Irvine**	Irvine, CA USA

Period	**2012-2014**	
Degree	**MA in Mathematics**	
University	**The University of California at San Diego**	San Diego, CA USA

Period	**Sept 2009 — Dec 2011**	
Degree	**Bachelor of Science in Mathematics**	
Rank	**With High Honors**	
University	**Georgia Institute of Technology**	Atlanta, GA USA

Period	**2006-2009**	
University	**Appalachian State University**	Boone, NC USA

Work Experience

Period	**2024-Present**	
Employer	**UC Riverside**	Riverside, CA
Job Title	**Visiting Assistant Professor**	

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Period	**2017- 2023**	
Employer	**UC Irvine**	Irvine, CA
Job Title	**Teacher's Assistant**	
	I have been a teacher's assistant at UCI for 5 years, with a variety of classes.	

Period	**2015-2017**	
Employer	**San Diego City College**	San Diego, CA
Job Title	**Community College Teacher**	
	While working at SDCCU, I taught roughly 2-3 classes a quarter, often focusing on Prealgebra, Algebra 2, Business Calculus, and Statistics.	

Period	**2015-2016**	
Employer	**Southwestern College**	San Diego, CA
Job Title	**Community College Professor**	
	While teaching at Southwestern, I taught mostly Algebra 2.	

Period	**2016-2017**	
Employer	**Grossmont College**	San Diego, CA
Job Title	**Community College Professor**	
	While teaching at Grossmont, I taught Prealgebra, Algebra 2, and Statistics.	

Activities and Events

Big Ideas in Dynamics
Spring 2023 and Fall 2023
https://sites.google.com/view/bigideasindynamics/home?authuser=0

references

Anton Gorodetski	asgor@uci.edu
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David Damanik	damanik@rice.edu
Luke Smith	smithla@uci.edu

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