

Willie Rush Lim

Employment

2024 – current	Tamarkin Assistant Professor, Brown University, RI
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Education

2019 – 2024	PhD in Mathematics, Stony Brook University, NY <ul style="list-style-type: none">○ Dissertation: “<i>From Herman Rings to Herman Curves</i>”○ Advisor: Dzmitry Dudko
2015 – 2019	MSci. in Mathematics, Imperial College London, UK

Research Interests

Dynamical systems, in particular holomorphic dynamics and renormalization theory

Papers

[3]	Hyperbolicity of renormalization of critical quasicycle maps. Submitted. arXiv:2405.09008
[2]	Rigidity of J-rotational rational maps and critical quasicycle maps. Submitted. arXiv:2308.07217
[1]	A priori bounds and degeneration of Herman rings with bounded type rotation number. Submitted. arXiv:2302.07794

Recent Talks

2024	November	Dynamical Systems Seminar, Stony Brook University
2024	November	Dynamical Systems Seminar, Cornell University
2024	October	Dynamical Systems Seminar, Boston University
2024	April	AMS Sectional Meeting, UW-Milwaukee
2024	April	Workshop on Dynamical Systems and Related Topics, UMD
2024	January	Geometry & Topology Seminar, Brown University
2023	November	Quasiworld Seminar, Online
2023	March	Complex Analysis and Dynamics Seminar, CUNY
2022	November	Dynamical Systems Seminar, Stony Brook University
2022	August	On Geometric Complexity of Julia Sets IV, Banach Center, IMPAN

Conferences Attended

2024	January	International Colloquium on Randomness, Geometry, and Dynamics – IISER, Pune
2023	August	Inaugural CNAM-Fields Nonlinear Days: Renormalization and Friends – Fields Institute. Participated in a poster session: pdf

2023	May	Around the Mandelbrot Set: celebrating the 60th birthday of Mitsuhiro Shishikura – Kyoto University
2022	December	Complex Dynamics in the Tropics: celebrating the 60th birthday of Carsten Lunde Petersen – IMPA. Participated in a poster session: pdf
2022	May	Adventurous Berkeley Complex Dynamics – MSRI Participated in a poster session: pdf

Teaching Experience

2023	Summer	Instructor, MAT127 Calculus C (part of Simons STEM Scholars Summer Bridge)
2022	Fall	Lecturer, MAT125 Calculus A
2022	Summer	Instructor, MAT203 Calculus III
2021	Summer	Instructor, MAT203 Calculus III
2020	Summer	Instructor, MAT342 Applied Complex Analysis
2019 – 2024		Teaching Assistant (as a grader and recitation leader) MAT131 Calculus I, MAT132 Calculus II, MAT211 Intro. to Linear Algebra, MAT303 Calculus IV with applications, MAT341 Applied Real Analysis, MAT341 Applied Complex Analysis, MAT351 Dynamics and Chaos, MAT536 Complex Analysis I

Honors and Awards

2024	Chairman's Award for Excellence in Teaching, Stony Brook University
2019	IBM Prize for Excellence in Pure Mathematics
2019	Prize for Excellence in Support of Teaching, Imperial College London
2017	G-Research Prize
2015 – 2019	Dean's List, Imperial College London
2015 – 2019	President's Undergraduate Scholarship, Imperial College London

Outreach and Service

2022	Fall	Co-organizer of ENYGMMa (Empowering New York Gender Minority Mathematicians)
2022	Summer	Instructor of the Mathematics Summer Program (MathCamp) for high school students
2021 – 2022		Directed Reading Program
2020 – 2021		Co-organizer of the Graduate Student Seminar