Willie Rush Lim

Employment

2024 - current	Tamarkin Assistant Professor, Brown University, RI
	Education
2019 – 2024	 PhD in Mathematics, Stony Brook University, NY Dissertation: "From Herman Rings to Herman Curves" Advisor: Dzmitry Dudko
2015 – 2019	MSci. in Mathematics, Imperial College London, UK
	Research Interests
Dynamic	al systems, in particular holomorphic dynamics and renormalization theory

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Papers

[3]	Hyperbolicity of renormalization of critical quasicircle maps. Submitted. arXiv:2405.09008
[2]	Rigidity of J-rotational rational maps and critical quasicircle 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

2025	August	Geometric Complexity of Julia Sets VI, Bedlewo
2025	June	Topics in Complex Dynamics, University of Barcelona
2025	February	Geometry & Topology Seminar, Brown University
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
		Conformers Attended

Conferences Attended

2025 Conference on Holomorphic Dynamics and Fractal Geometry January - BICMR, Peking University

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	August	Geometric Complexity of Julia Sets IV – Banach Center, IMPAN. Contributed a short talk	
2022	May	Adventurous Berkeley Complex Dynamics – MSRI Participated in a poster session: pdf	
		Teaching Experience	
2024	Fall	Lecturer, MATH200 Multivariable Calculus	
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) Calculus I, Calculus II, Calculus IV, Intro. to Linear Algebra, Applied Real Analysis, Applied Complex Analysis, Dynamics and Chaos, Graduate Complex Analysis	
		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	