## Willie Rush Lim

## **Employment**

2024 - current	Tamarkin Assistant Professor, Brown University, RI
	Education
2019 – 2024	<ul> <li>PhD in Mathematics, Stony Brook University, NY</li> <li>Dissertation: "From Herman Rings to Herman Curves"</li> <li>Advisor: Dzmitry Dudko</li> </ul>
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. <u>arXiv:2405.09008</u>
[2]	Rigidity of J-rotational rational maps and critical quasicircle maps. Submitted. <u>arXiv:2308.07217</u>
[1]	A priori bounds and degeneration of Herman rings with bounded type rotation number.

Submitted. arXiv:2302.07794

## **Recent Talks**

		11000110 101110
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: <a href="mailto:pdf">pdf</a>

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				
		MAT536 Complex Analysis I				
2024		MAT536 Complex Analysis I				
2024 2019		MAT536 Complex Analysis I  Honors and Awards				
		MAT536 Complex Analysis I  Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University				
2019		MAT536 Complex Analysis I  Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics				
2019 2019 2017	- 2019	MAT536 Complex Analysis I  Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics Prize for Excellence in Support of Teaching, Imperial College London				
2019 2019 2017 2015 -	- 2019 - 2019	Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics Prize for Excellence in Support of Teaching, Imperial College London G-Research Prize				
2019 2019 2017 2015 -		Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics Prize for Excellence in Support of Teaching, Imperial College London G-Research Prize Dean's List, Imperial College London				
2019 2019 2017 2015 -		Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics Prize for Excellence in Support of Teaching, Imperial College London G-Research Prize Dean's List, Imperial College London President's Undergraduate Scholarship, Imperial College London				
2019 2019 2017 2015 - 2015 -	- 2019	Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics Prize for Excellence in Support of Teaching, Imperial College London G-Research Prize Dean's List, Imperial College London President's Undergraduate Scholarship, Imperial College London  Outreach and Service  Co-organizer of ENYGMMa (Empowering New York Gender Minority				
2019 2019 2017 2015 - 2015 - 2022 2022	- 2019 Fall	Honors and Awards  Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics Prize for Excellence in Support of Teaching, Imperial College London G-Research Prize Dean's List, Imperial College London President's Undergraduate Scholarship, Imperial College London  Outreach and Service  Co-organizer of ENYGMMa (Empowering New York Gender Minority Mathematicians) Instructor of the Mathematics Summer Program (MathCamp) for high school				