Willie Rush Lim

Education

		Education
	– 2024 – 2019	 PhD in Mathematics, Stony Brook University, NY Research Interests: Complex dynamical systems, renormalization theory Dissertation: "From Herman Rings to Herman Curves" Advisor: Dzmitry Dudko MSci. in Mathematics, Imperial College London, UK First class honors Advisor: Davoud Cheraghi
		Research Papers
[1]	-	ds and degeneration of Herman rings with bounded type rotation number.
[2]	Rigidity of J-r	otational rational maps and critical quasicircle maps. Submitted. <u>arXiv:2308.07217</u>
[3]	Hyperbolicity	of renormalization of critical quasicircle maps. <u>arXiv:2405.09008</u>
		Recent Talks
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: <u>pdf</u>

2021 2021 2021 2020	September September March March	On Geometric Complexity of Julia Sets III (online) – Banach Center, IMPAN Advancing Bridges in Complex Dynamics (online) – CIRM Many Faces of Renormalization (online) – Simons Center Analysis, Dynamics, Geometry and Probability – Simons Center
		Teaching Experience
2023 2022 2022 2021 2020 2019 -	Summer Fall Summer Summer Summer - 2024	Instructor, MAT127 Calculus C (part of Simons STEM Scholars Summer Bridge) Lecturer, MAT125 Calculus A Instructor, MAT203 Calculus III Instructor, MAT203 Calculus III Instructor, MAT342 Applied Complex Analysis 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 2019		Chairman's Award for Excellence in Teaching, Stony Brook University IBM Prize for Excellence in Pure Mathematics
2019 2017		Prize for Excellence in Support of Teaching, Imperial College London G-Research Prize
2017	- 2019	Prize for Excellence in Support of Teaching, Imperial College London G-Research Prize Dean's List, Imperial College London
2017		G-Research Prize
2017 2015 -		G-Research Prize Dean's List, Imperial College London
2017 2015 -		G-Research Prize Dean's List, Imperial College London President's Undergraduate Scholarship, Imperial College London
2017 2015 - 2015 -	- 2019	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
2017 2015 - 2015 - 2022	- 2019 Fall	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
2017 2015 - 2015 - 2022 2022	Fall Summer	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 students