Willie Rush Lim

Education

2019 – F	Present	PhD Candidate in Mathematics, Stony Brook University, NY
		Research Interest: Holomorphic dynamics, renormalization theory
		Advisor: Dzmitry Dudko
2015 – 2	2019	MSci. Mathematics, Imperial College London, UK
		First class honors
		 Dissertation: "Quadratic-Like Renormalisation in Holomorphic Dynamics"
		Advisor: Davoud Cheraghi
		Papers
2022		A Priori Bounds for Bounded Type Herman Rings (in preparation)
2022		Combinatorial Rigidity of Bounded Type Herman Quasicircles (in preparation)
		Teaching Experience
2021 F	all	Grader, MAT211 Introduction to Linear Algebra
2021 S	Summer	Course Instructor, MAT203 Calculus III
2021 S	pring	Teaching Assistant, MAT132 Calculus II
2020 F	all	Teaching Assistant, MAT131 Calculus I
2020 S	ummer	Course Instructor, MAT342 Applied Complex Analysis
2020 S	pring	Grader, MAT351 Differential Equations: Dynamics and Chaos
2019 F	all	Grader, MAT341 Applied Real Analysis
2017 - 2	2019	Teaching Assistant, 1 st and 2 nd year undergraduate courses
		Honors and Awards
2019		IBM Prize for Excellence in Pure Mathematics
2019		Prize for Excellence in Support of Teaching, Imperial College London
2017		G-Research Prize
2015 - 2	2019	Dean's List, Imperial College London
2015 – 2	2019	President's Undergraduate Scholarship, Imperial College London
		Conferences and Workshops Attended
2022 N	Л ау	Adventurous Berkeley Complex Dynamics – MSRI
2021 S	eptember	On Geometric Complexity of Julia Sets, Part III (online) – Banach Center, IMPAN
2021 S	eptember	Advancing Bridges in Complex Dynamics (online) - CIRM
2021 N	∕larch	Many Faces of Renormalisation (online) - Simons Center

2020 2020	August March	On Geometric Complexity of Julia Sets, Part II (online) — Banach Center, IMPAN Analysis, Dynamics, Geometry and Probability — Simons Center	
Talks			
2022	Mar	"Intro. to Kahler Geometry" – Student Differential Geometry Seminar (SDGS)	
2021	Dec	"Dynamics of Quadratic Polynomials" — Graduate Student Seminar (GSS)	
2021	May	"Information Inequalities" – Analysis Student Seminar (ASS)	
2021	March	"What Is an Orbifold?" — GSS	
2021	March	"Brunn-Minkowski and Concentration of Measures" — ASS	
2020	October	"Subharmonic Functions and Convexity" — ASS	
2020	February	"Subharmonic and Plurisubharmonic Functions" — SDGS	
2019	December	"Renormalization of Unimodal Maps and Feigenbaum Universality" —	
		Renormalization Student Seminar	
2019	October	"Brushing the Hairs of Transcendental Entire Functions" — GSS	
2019	February	"Quasiconformal Deformations and Sullivan's No Wandering Domains" – IMA's	
		Tomorrow's Mathematicians Today, University of Greenwich	
2018	March	"A Conjecture on Quasiconformal Maps" – Undergraduate Colloquium, Imperial	
		College London	
Outreach and Service			
2022	Spring	Directed Reading Program (Fractal Geometry) – Stony Brook University	
2021	Spring	Directed Reading Program (The Symmetries of Things) – Stony Brook University	
2020 -	- 2021	Co-organiser of the Graduate Student Seminar – Stony Brook University	