## Willie Rush Lim

## **Education**

2019 – Present  PhD Candidate in Mathematics, Stony Brook University, NY  Research Interest: Dynamical systems, renormalisation theory		
Advisor: Dzmitry Dudko		
2015 – 2019 MSci. Mathematics, Imperial College London, UK		
<ul> <li>First class honors</li> </ul>		
<ul> <li>Dissertation: "Quadratic-Like Renormalisation in Holomorphic Dy</li> </ul>	namics"	
<ul> <li>Advisor: Davoud Cheraghi</li> </ul>		
Teaching Experience		
2021 Fall Grader, MAT211 Introduction to Linear Algebra		
2021 Summer Course Instructor, MAT203 Calculus III		
2021 Spring Teaching Assistant, MAT132 Calculus II		
2020 Fall Teaching Assistant, MAT131 Calculus I		
2020 Summer Course Instructor, MAT342 Applied Complex Analysis		
<b>2020 Spring</b> Grader, MAT351 Differential Equations: Dynamics and Chaos		
<b>2019 Fall</b> Grader, MAT341 Applied Real Analysis		
<b>2017 – 2019</b> Teaching Assistant, 1 <sup>st</sup> and 2 <sup>nd</sup> year undergraduate courses		
Honors and Awards		
2019 IBM Prize for Excellence in Pure Mathematics		
2019 Prize for Excellence in Support of Teaching, FoNS Imperial College Lo	ondon	
2017 G-Research Prize		
<b>2015 – 2019</b> Dean's List, Imperial College London		
<b>2015 – 2019</b> President's Undergraduate Scholarship, Imperial College London		
Conferences and Workshops Attended		
2021 September On Geometric Complexity of Julia Sets, Part III — Banach Center, IM	PAN	
2021 September Advancing Bridges in Complex Dynamics — CIRM		
2021 March Many Faces of Renormalisation – Simons Center		
2020 August On Geometric Complexity of Julia Sets, Part II — Banach Center, IMF	PAN	
<b>2020</b> March Analysis, Dynamics, Geometry and Probability – Simons Center		
2019 January LMS Scheme 3 Network in Holomorphic Dynamics - University of No.	ottingham	

## **Talks**

2021 2021	May March	"Information Inequalities" — Analysis Student Seminar
2021	March	"What is an orbifold?" — Graduate Student Seminar  "Brunn-Minkowski and Concentration of Measures" — Analysis Student Seminar
2020	October	"Subharmonic Functions and Convexity" — Analysis Student Seminar
2020	February	"Subharmonic and Plurisubharmonic Functions" — Student Differential Geometry Seminar
2019	December	"Renormalization of Unimodal Maps and Feigenbaum Universality" — Renormalization Student Seminar
2019	October	"Brushing the Hairs of Transcendental Entire Functions" — Graduate Student Seminar
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"
		<ul> <li>Undergraduate Colloquium, Imperial College London</li> </ul>
Outreach and Service		
2021	Spring	Directed Reading Program (DRP) - Stony Brook University

2020 - 2021

Co-organiser for the Graduate Student Seminar – Stony Brook University