

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**
- First class honors
 - Dissertation: “*Quadratic-Like Renormalisation in Holomorphic Dynamics*”
 - Advisor: Davoud Cheraghi

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
- 2020 Spring** Grader, MAT351 Differential Equations: Dynamics and Chaos
- 2019 Fall** Grader, MAT341 Applied Real Analysis
- 2017 – 2019** Teaching Assistant, 1st and 2nd 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 London
- 2017** G-Research Prize
- 2015 – 2019** Dean’s List, Imperial College London
- 2015 – 2019** President's Undergraduate Scholarship, Imperial College London

Conferences and Workshops Attended

- 2021 September** On Geometric Complexity of Julia Sets, Part III – Banach Center, IMPAN
- 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, IMPAN
- 2020 March** Analysis, Dynamics, Geometry and Probability – Simons Center
- 2019 January** LMS Scheme 3 Network in Holomorphic Dynamics - University of Nottingham

Talks

2021	May	<i>"Information Inequalities"</i> – Analysis Student Seminar
2021	March	<i>"What is... an orbifold?"</i> – Graduate Student Seminar
2021	March	<i>"Brunn-Minkowski and Concentration of Measures"</i> – Analysis Student Seminar
2020	October	<i>"Subharmonic Functions and Convexity"</i> – Analysis Student Seminar
2020	February	<i>"Subharmonic and Plurisubharmonic Functions"</i> – Student Differential Geometry Seminar
2019	October	<i>"Brushing the Hairs of Transcendental Entire Functions"</i> – Graduate Student Seminar
2019	February	<i>"Quasiconformal Deformations and Sullivan's No Wandering Domains"</i> – IMA's Tomorrow's Mathematicians Today, University of Greenwich
2018	March	<i>"A Conjecture on Quasiconformal Maps"</i> – Undergraduate Colloquium, Imperial College London

Outreach and Service

2021	Spring	Directed Reading Program (DRP) – Stony Brook University
2020 – 2021		Co-organiser for the Graduate Student Seminar – Stony Brook University