José **Giral Barajas**

PhD Student · Mathematics Research

Imperial College London, South Kensington, London, SW7 2AZ, UK

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Education	
Imperial College London	London, UK
Ph.D. Mathematics	2024 - present
Advisor: Professor Paul C Bressloff	
Universidad Nacional Autónoma de México (UNAM) M.Sc. MATHEMATICS	Mexico City, Mexico 2022 - 2024
Advisor: Dr. Sergio I. López Ortega	2022 - 2024
 Thesis: Probabilistic epidemiological model for heterogeneous populations Qualifying exams in partial differential equations, probability and stochastic, processes a 	and graph theory.
Universidad Nacional Autónoma de México (UNAM)	Mexico City, Mexico
B.Sc. Applied mathematics	2017 - 2021
 Advisor: Dr. Sergio I. López Ortega Thesis: Probabilistic epidemiological model with microdynamics and reverse time (Spar First-class honours, ranked top of the and awarded the Gabino Barreda medal 	nish)
Professional Experience	
2021-2022 Business Intelligence Specialist, Totalplay Telecomunicaciones, S.A. de C.	v., Mexico City, Mexico
Publications	
JOURNAL PAPERS	
 J. Giral-Barajas, C. I. Herrera-Nolasco, M. A. Herrera-Valdez and S. I. López. A prol epidemiological dynamics of infectious diseases: Basic model and properties. J. Th 	
Preprints	
1. J. Giral-Barajas and P. C. Bressloff. Stochastic 1D search-and-capture as a G/M/o 2503.21883	queueing model. arXiv preprint:
Scholarships and Awards	
2024 Roth Scholarship for Ph.D. Degree , Department of Mathematics, Imperial Co	ollege London, UK
Graduate Scholarship for M.Sc. Degree, National Council of Humanities, Sciences and Technologies (CONAHCyT), Mexico	
2022 Gabino Barreda medal, Universidad Nacional Autónoma de México (UNAM),	Mexico
Teaching Experience	
Spring 2025 Imperial College London, Graduate Teaching Assistant, Probability and	statistics
Spring 2024 UNAM, Graduate Teaching Assistant, Stochastic processes	
Fall 2023 UNAM, Teaching Assistant, Probability	
Spring 2022 UNAM, Teaching Assistant, Mathematical Modelling Workshop	