

AKSHAY HEGDE

CONTACT INFORMATION	Department of Mathematics National University of Singapore S17, 10, Lower Kent Ridge road Singapore 119076	Tel: +65 65161804 Personal email - akshaychipgi@gmail.com Institutional email- akshay.hegde@nus.edu.sg
RESEARCH INTERESTS	Probability theory, Gaussian fields, statistical mechanics models.	
EMPLOYMENT	National University of Singapore (NUS) Peng Tsu Ann assistant professor (Visiting fellow) Aug 2025	
EDUCATION	University of Oxford Doctor of Philosophy (DPhil/ PhD) in Mathematics Oct 2021- Jul 2025 <ul style="list-style-type: none">• Project: Geometry of Smooth Gaussian Fields• Advisor: Prof. Dmitry Belyaev Indian Statistical Institute, Bangalore Masters of mathematics [M.Math] July 2019 - May 2021 Bachelors of Mathematics (Honours) [B.Math(Hons.)] July 2016 - May 2019 <ul style="list-style-type: none">• First class with distinction (highest honours)	
PREPRINTS / PUBLICATIONS	Beliaev, D. and Hegde, A. On Convergence of Volume of Level Sets of Stationary Smooth Gaussian Fields, Electron. Commun. Probab. vol. 28, 1-9, 2023. DOI: 10.1214/23-ECP543 Beliaev, D. and Hegde, A. Limit theorems for high critical points of smooth Gaussian fields (<i>in preparation</i>)	
TALKS / SHORT TALKS	<i>NUS-Bangalore workshop</i> , IISc Bangalore, August 2025 <i>School on disordered media</i> , Budapest, January 2025 Maths department seminar, IIT Dharward, India, January 2025 <i>Durham Symposium 2024</i> , Durham, UK, August 2024 <i>4th Italian meeting on Probability and Mathematical Statistics</i> , Rome, Italy, June 2024 <i>Trinity Talks: Beyond classroom</i> (high-school outreach), March 2024 Trinity College MCR research showcase talk, November 2023 Stochastic Analysis seminar, Oxford, June 2023 Bangalore probability seminar, April 2023	

CONFERENCES / SEMINARS	<i>Data Science: Probability and Optimisation II</i> , ICTS-TIFR, Bangalore, August 2025
	<i>Statistical mechanics of spin glasses, neural networks and learning</i> , Hausdorff School of Mathematics, Bonn, Germany, June 2025
	<i>Lean for the curious mathematician</i> , ICTS-TIFR, Bangalore, May 2025
	<i>International colloquium on randomness, geometry and dynamics</i> , IISER, Pune, January 2024
	<i>Quantum Chaos and Nodal Sets of Random Waves</i> , Kings College London, July 2022
	<i>Probability and Mathematical Physics 2022</i> , Helsinki, Finland, July 2022
HONOURS / AWARDS	<i>St. Petersburg Youth Conference in Probability and Mathematical Physics</i> , December 2021
	Trinity College- Maths Institute Scholarship (2021-2025)
	2nd rank in B.Math(Hons.)
TEACHING EXPERIENCE	VSRP Scholar-2019, by TIFR, Mumbai
	National University of Singapore, Lecturer
	<ul style="list-style-type: none"> MA4262: Measure and integration, 4th year
	University of Oxford (includes college tutorials)
	<ul style="list-style-type: none"> Tutor <ol style="list-style-type: none"> Fourier analysis and PDE, I year Topology, II year Probability, measures and martinagles, III year Continuous martingales and stochastic calculus, III year Functional analysis, III year Teaching assistant <ol style="list-style-type: none"> Integration, II year Random matrix theory, IV year /master's
	Non university teaching <ol style="list-style-type: none"> Oxford Summer Courses (Fractals in probability and analysis) Instructor, Monsoon Math Camp July 2021
SERVICES	Peer review in journals: Transactions of the American Mathematical Society
EXTRA CURRICULAR	President, Oxford Hindu Society (2023-24) Webmaster & archivist, Oxford University walking club (2022-24) Demonstrator, Oxford Maths Fest 2024

MISCELLANEOUS Full name: Akshay Sateesh Hegde
Citizenship: India