

# AKSHAY SATEESH HEGDE

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CONTACT INFORMATION	S1.28 Mathematical Institute University of Oxford Woodstock Road, Oxford OX2 6GG UK	Tel: +44 1865 283882 Personal email - akshaychipgi@gmail.com Institutional email- hegde@maths.ox.ac.uk
RESEARCH INTERESTS	Smooth Gaussian Fields, Percolation theory, Probability theory	
EDUCATION	<b>University of Oxford</b> Doctor of Philosophy (DPhil) in Mathematics <b>Oct 2021- Sept 2025</b> <ul style="list-style-type: none"><li>• Project: Geometry of Smooth Gaussian Fields</li><li>• Advisor: Prof. Dmitry Belyaev</li></ul> <b>Indian Statistical Institute, Bangalore</b> Masters of mathematics [M.Math] <b>July 2019 - May 2021</b> Bachelors of Mathematics (Honours) [B.Math(Hons.)] <b>July 2016 - May 2019</b> <ul style="list-style-type: none"><li>• First class with distinction (highest honours)</li></ul>	
HONOURS / AWARDS	Trinity College- Maths Institute Scholarship (2021-2025) 2nd rank in B.Math(Hons.) VSRP Scholar-2019, by TIFR,Mumbai	
TALKS	Bangalore probability seminar, April 2023 Stochastic Analysis group, internal seminar, Oxford, June 2023 Trinity College MCR research showcase talk, November 2023	
PREPRINTS / PUBLICATIONS	Beliaev, D. and Hegde, A.. On Convergence of Volume of Level Sets of Stationary Smooth Gaussian Fields, 2023. <a href="https://doi.org/10.48550/arxiv.2302.10265">https://doi.org/10.48550/arxiv.2302.10265</a> .	
CONFERENCES / SEMINARS	<i>Quantum Chaos and Nodal Sets of Random Waves</i> , Kings College London, July 2022 <i>Probability and Mathematical Physics 2022</i> , Helsinki, Finland, 28th June-7th July 2022 <i>St. Petersburg Youth Conference in Probability and Mathematical Physics</i> , December 2021 <i>Stochastic Analysis and Math Finance Seminar</i> , Oxford <i>Bangalore Probability Seminar</i>	

TEACHING  
EXPERIENCE

Tutor B8.2 Continuous Martingales HT23, Regent's Park College (Visiting student)

TA for C7.7 Random Matrix Theory HT23

Tutor for B8.1 Probability, measure and martingales MT22

Tutor for Functional Analysis-I MT22, Regent's Park College

Tutor for Multi-dimensional Analysis and Geometry (Somerville College, Oxford and Merton College, Oxford) TT22

Tutor (Revision classes) Part A Integration (Queens College, Oxford) TT22

TA for B4.2 Functional Analysis-II HT22

TA for B8.1 Probability, measure and martingales MT21

Instructor, Monsoon Math Camp July 2021 (Summer camp for exceptionally motivated high school students)

COMPUTING  
SKILLS

Basics of programming [Language: C]

Math computing in Octave/ MATLAB, R

Math typesetting in  $\text{\LaTeX}$