Akshay Hegde [1]

Contact Information	S1.28
	Mathematical Institute
	University of Oxford
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		`hegde@maths.ox.ac.uk`

Research Interests

Probability theory, Gaussian fields, percolation theory, statistical mechanics models.

Education

University of Oxford

Doctor of Philosophy (DPhil) in Mathematics   **Oct 2021- Sept 2025**
- 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**
- 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 (*in preparation*)

Talks

Durham Symposium 2024, Durham, UK, August 2024

4th Italian meeting on Probability and Mathematical Statistics, Rome, Italy, June 2024

Trinity Talks: Beyond classroom (high-school outreach), March 2024

Trinity College MCR research showcase talk, November 2023

Stochastic Analysis group, internal seminar, Oxford, June 2023

Bangalore probability seminar, April 2023

Conferences / Seminars

International colloquium on randomness, geometry and dynamics, IISER, Pune, January 2024

Quantum Chaos and Nodal Sets of Random Waves, Kings College London, July 2022

Probability and Mathematical Physics 2022, Helsinki, Finland, July 2022

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[1] https://www.maths.ox.ac.uk/people/akshay.hegde

St. Petersburg Youth Conference in Probability and Mathematical Physics, December 2021

HONOURS / AWARDS	Trinity College- Maths Institute Scholarship (2021-2025)
	2nd rank in B.Math(Hons.)
	VSRP Scholar-2019, by TIFR,Mumbai

TEACHING EXPERIENCE

University of Oxford (includes college tutorials)
- Tutor
  1. Fourier analysis and PDE, I year
  2. Topology, II year
  3. Probability, measures and martinagles, III year
  4. Continuous martingales and stochastic calculus, III year
  5. Functional analysis, III year
- Teaching assistant
  1. Integration, II year
  2. Random matrix theory, IV year /master's

Non university teaching
1. Oxford Summer Courses (Fractals in probability and analysis)
2. Instructor, Monsoon Math Camp July 2021

COMPUTING SKILLS

Basics of programming [Language: C]
Math computing in Octave/ MATLAB, R

EXTRA CURRICULAR

President, Oxford Hindu Society (2023-24)
Webmaster & archivist, Oxford University walking club (2022-24)
Volunteer, Oxford Maths Fest 2024

MISCELLANEOUS

Full name: Akshay Sateesh Hegde
Citizenship: India