

Dilshad Imon
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PhD Student
Department of Statistics and Operations Research
University of North Carolina at Chapel Hill

Education

2021- (ongoing)*	Ph.D., Department of STOR, University of North Carolina at Chapel Hill
2019-21	M. Sc. in Statistics , Indian Institute of Technology Kanpur
2016-19	B. Sc. in Statistics , St. Xavier's College, Kolkata (University of Calcutta)

Research Interests

Probability Theory, Stochastic Analysis, Markov Processes, Asymptotics and Long-Time Behavior of Interacting Particle Systems.

Research

1. Banerjee, S., Budhiraja, A. & **Dilshad Imon**. Flocking under Fast and Large Jumps: Stability, Chaos, and Traveling Waves. *Submitted* (2024). arXiv: [2404 . 13117 \[math.PR\]](https://arxiv.org/abs/2404.13117). <https://arxiv.org/abs/2404.13117>.
2. **Dilshad Imon** & Vats, D. Confidence Interval for Effective Sample Size for Markov Chain Monte Carlo. *M.Sc. Thesis, IIT Kanpur*. <http://dx.doi.org/10.13140/RG.2.2.15392.03841> (2021).

Awards & Honors

2025	Graduate Student Transportation Grant, The Graduate School, UNC Chapel Hill
2021	Jasmine & Mohiuddin Merit Scholarship, IIT Kanpur
2020	N. Balakrishnan Award in Statistics, IIT Kanpur
2020	Academic Excellence Award, IIT Kanpur
2016-21	INSPIRE Scholarship for Higher Education awarded by DST, Govt. of India

Experience

Teaching

- Fall 2024 Instructor for STOR155 - Introduction to Data Models and Inference

Lab Instructorships

Summer II 2024	Lab Instructor for STOR320 - Introduction to Data Science, UNC Chapel Hill
Summer I 2024	Lab Instructor for STOR320 - Introduction to Data Science, UNC Chapel Hill
Summer II 2023	Lab Instructor for STOR320 - Introduction to Data Science, UNC Chapel Hill

Instructional Assistantships (IA)

Fall 2025	IA for STOR555 - Mathematical Statistics, UNC Chapel Hill
Summer II 2025	IA for STOR155 - Introduction to Data Models and Inference, UNC Chapel Hill
Summer II 2025	IA for STOR113 - Decision Models for Business and Economics, UNC Chapel Hill
Summer I 2025	IA for STOR155 - Introduction to Data Models and Inference, UNC Chapel Hill
Summer I 2023	IA for STOR435 - Introduction to Probability, UNC Chapel Hill
Spring 2023	IA for STOR435 - Introduction to Probability, UNC Chapel Hill
Fall 2022	IA for STOR555 - Mathematical Statistics, UNC Chapel Hill
Summer II 2022	IA for STOR155 - Introduction to Data Models and Inference, UNC Chapel Hill
Summer I 2022	IA for STOR435 - Introduction to Probability, UNC Chapel Hill
Spring 2022	IA for STOR435 - Introduction to Probability, UNC Chapel Hill
Fall 2021	Grader for STOR435 - Introduction to Probability, UNC Chapel Hill

Research Assistantships

Spring 2025	PI: Dr. Sayan Banerjee
Spring 2024	PI: Dr. Amarjit Budhiraja
Fall 2023	PI: Dr. Amarjit Budhiraja

Review work

Reviewed article for Methodology and Computing in Applied Probability.

Conferences attended

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| 2025 | <i>Lightning talk and poster presentation</i> at YMCN Summer School in Interacting Random Systems, University of Münster, Germany |
| 2025 | <i>Invited talk</i> at SPDE Workshop, Ohio State University, USA |
| 2024 | Southeastern Probability Conference at UNC Chapel Hill, USA |
| 2023 | Southeastern Probability Conference at University of Virginia at Charlottesville, USA |
| 2023 | Southeastern Probability Conference at Duke University, USA |
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Last updated: October 19, 2025