

## Dilshad Imon

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PhD Student

Department of Statistics and Operations Research  
University of North Carolina at Chapel Hill

## Education

2021- (ongoing)*	<b>Ph.D.</b> , Department of STOR, University of North Carolina at Chapel Hill
2019-21	<b>M. Sc. in Statistics</b> , Indian Institute of Technology Kanpur
2016-19	<b>B. Sc. in Statistics</b> , 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

3. [Long Time Asymptotics for the Stochastic Follow-the-Leader System \(2026\)](#). (with S. Banerjee and A. Budhiraja). *Submitted to The Annals of Applied Probability*.
2. [Flocking under Fast and Large Jumps: Stability, Chaos, and Traveling Waves \(2024\)](#). (with S. Banerjee and A. Budhiraja). *Submitted to Probability Theory and Related Fields*.
1. [Confidence Interval for Effective Sample Size for Markov Chain Monte Carlo \(2021\)](#). *Master's thesis, IIT Kanpur (supervised by Dr. Dootika Vats)*

## 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
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## 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.

## Invited and contributed talks

- 2026        *Long Time Asymptotics for the Stochastic Follow-the-Leader System.* Probability and Combinatorics Seminar, Stony Brook University, USA
- 2025        *Flocking under Fast and Large Jumps in a Non-linear Mean Field System.* YMCN Summer School in Interacting Random Systems, University of Münster, Germany
- 2025        *Flocking under Fast and Large Jumps in a Non-linear Mean Field System.* SPDE Workshop, Ohio State University, USA

## Other conferences attended

- 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

## Reference information

- 1. Amarjit Budhiraja - budhiraj@email.unc.edu
- 2. Sayan Banerjee - sayan@email.unc.edu
- 3. Shankar Bhamidi - bhamidi@email.unc.edu
- 4. William Lassiter (teaching reference) - wlassite@email.unc.edu

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