

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

Education

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| 2021- | Ph.D. , Department of STOR, University of North Carolina at Chapel Hill |
| (ongoing)* | |
| 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

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

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| 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

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| 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)

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| 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

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| 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

Last updated: January 10, 2026