Miheer Dewaskar

Contact Information	33305 McQueen Drive Durham, NC 27705, United States.	*Phone*: 919-564-9343 *Email*: miheer.dewaskar@duke.edu *Web*: http://miheerdewaskar.com *GitHub*: github.com/miheerdew

Education

University of North Carolina at Chapel Hill   May 2021
Chapel Hill, North Carolina; United States.
Ph.D. Statistics and Operations research
Title: High-dimensional problems in statistics and probability:
correlation mining and distributed load balancing
Advisors: Shankar Bhamidi, Amarjit Budhiraja, Andrew B. Nobel

Chennai Mathematical Institute   June 2016
Chennai, India.
M.S. Computer Science

Chennai Mathematical Institute   June 2014
Chennai, India.
B.S. (Hons) Mathematics and Computer Science

Employment

Postdoctoral Associate at Duke University   June 2021 – present
Advisor: David Dunson

Research Interests

- Interpretable machine learning

- Robust statistical inference

- Stochastic processes and its applications

Teaching Experience

Introduction to Statistics, Primary Instructor   Fall 2019
University of North Carolina at Chapel Hill.

Softwares

Developed R/C++ package CBCE: software for detecting bimodules in multi-view data.
Programming languages: proficient in R, Python, and C++.

Papers

Published

1. Bhamidi S, Budhiraja A, and **Dewaskar M**. "Near Equilibrium Fluctuations for Supermarket Models with Growing Choices." (2022) *Annals of Applied Probability VOL. 32 (NO. 3), 2083-2138.*

2. Goyal M, **Dewaskar M**, Duggirala PS, "NExG: Provable and Guided State Space Exploration of Neural Network Control Systems using Sensitivity Approximation" (2022) *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2022, doi: 10.1109/TCAD.2022.3197524.*

3. Bertrand N, **Dewaskar M**, Genest B, Gimbert H, and Godbole A. "Controlling a population." (2019) *Logical Methods in Computer Science*, Vol. 15, Issue 3.

4. Bertrand N, **Dewaskar M**, Genest B, Gimbert H "Controlling a population." (2017) *28th International Conference on Concurrency Theory (CONCUR 2017).*

Preprint/Under Review

1 **Dewaskar M**, Palowitch J, He M, Love M.I., Nobel A.B. "Finding Stable Groups of Cross-Correlated Features in Multi-View data." (submitted to JMLR, 2022)

In Preparation

1 **Dewaskar M***, Tosh C*, Knoblauch J, Dunson D.B. "Robustifying the likelihood by optimistically re-weighting data."

Honors and Awards	**Cambanis-Hoeffding-Nicholson award**, *STOR department, UNC Chapel Hill.*	**2017**
	Medal of Excellence, *Chennai Mathematical Institute.*	**2016**
	Charpak Scholarship, *Embassy of France in India.*	**2015**
	INSPIRE Scholarship, *Department of Science and Technology, India.*	**2011**

Talks

1 "Independence, L_p spaces, and Expectation inequalities", Guest Lecture in Probability and Measure Theory, Fall 2022, Duke University (Primary instructor: Galen Reeves).

2 "Finding stable groups of cross-correlated features in bi-view data," Joint Statistical Meetings, August 2022. (Speed Presentation and Poster)

3 "Groupwise cross-correlation mining in bi-view data," IISER Pune, August 2022.

4 "Guided State-Space Exploration in Closed Loop Control Systems Using Sensitivity Approximation," Systems and Control Engineering, IIT Bombay, July 2022.

5 "Finding significant communities in cross-correlation networks derived from multi-view data", SAMSI Seminars, January 2021.

6 "Near Equilibrium fluctuations for Supermarket models with growing choices," Bernoulli-IMS One World Symposium 2020, August 2020. (Online talk)

Professional Activities

- Mentoring undergraduate student Leona Yu for her senior thesis with Yue Jiang (Fall 2022 - Spring 2023).

- **Membership**: International Society for Bayesian Analysis.

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last updated: December 27, 2022; *: joint first authors.