
CURRENT POSITION	Associate Professor Operations Management and Quantitative Techniques (OM&QT) Area Indian Institute of Management (IIM) Indore
RESEARCH INTERESTS	Statistics and probability, stochastic processes, financial mathematics, Markov process and stochastic process simulations.
EXPERIENCE	Associate Professor , OM&QT Area, IIM Indore Jul 2023 to present Assistant Professor , OM&QT Area, IIM Indore Jun 2017 to Jul 2023 Research Associate Jan 2017 to Jun 2017 Department of Mathematics, IIT Bombay
PROJECTS	Role: PI . Title: Mathematics and Nyaaya Darshana Funding Agency: Indian Knowledge Systems (IKS) Division, Ministry of Education. Duration: 2023–24, 2 years. Role: co-PI . Title: Digitization and Content Creation on Sankhya Darshan, Yoga Sutra, Prana and Swara with a case study on mental benefits of Mantra Dhyaan Funding Agency: IKS Division, Ministry of Education. Duration: 2023, 6 months.
PUBLICATIONS	Published/Accepted papers <ol style="list-style-type: none">Maheshwari, A. (2023). Tempered Space Fractional Negative Binomial Process. <i>Statistics and Probability Letters</i>. 109700 (196). https://doi.org/10.1016/j.spl.2023.109799Beghin, L., Gajda, J. and Maheshwari, A. (2020). Integro-differential equations linked to compound birth processes with infinitely divisible addends. <i>Mathematical Methods in the Applied Sciences</i>. 1–17. https://doi.org/10.1002/mma.6467.Sengar, A., Maheshwari, A. and Upadhye, N. (2020). Time-changed Poisson process of order k. <i>Stochastic Analysis and Applications</i> 28 (1), 124–148. https://doi.org/10.1080/07362994.2019.1653198.Kumar A., Maheshwari, A. and Wylomańska, A. (2019). Linnik Levy Process and Some Extensions. <i>Physica A: Statistical Mechanics and its Applications</i> 121539. https://doi.org/10.1016/j.physa.2019.121539Maheshwari, A. and Vellaisamy, P. (2019). Fractional Poisson process time-changed by Lévy subordinator and its inverse. <i>Journal of Theoretical Probability</i> 32 (3), 1278–1305. https://doi.org/10.1007/s10959-017-0797-6.Maheshwari, A. and Vellaisamy, P. (2018). Non-homogeneous space-time fractional Poisson processes. <i>Stochastic Analysis and Applications</i> 37 (2), 137–152. https://doi.org/10.1080/07362994.2018.1541749.Vellaisamy, P. and Maheshwari, A. (2018). Fractional negative binomial and Polya processes. <i>Probability and Mathematical Statistics</i> 38 (1), 77–101. linkMaheshwari, A. and Vellaisamy, P. (2016). On the long-range dependence of fractional Poisson and negative binomial processes. <i>Journal of Applied Probability</i> 53 (4), 989–1000. URL: http://dx.doi.org/10.1017/jpr.2016.59. Submitted papers

9. Babulal, M. S., Gauttam, S. K. and **Maheshwari, A.** (2023). Poisson processes with jumps governed by lower incomplete gamma subordinator and its variations. *Submitted*. URL: <https://arxiv.org/abs/2303.17330>
10. **Maheshwari, A.**, Orsingher, E. and Sengar, A. S. (2019). Superposition of time-changed Poisson processes and their hitting times. *Submitted*. URL: <https://arxiv.org/abs/1909.13213>
11. Arun Kumar, Harsh Verma and **Aditya Maheshwari** (2020). Potential Theory of Normal Tempered Stable Process. *Submitted*.

Book chapter

12. **Maheshwari, A.** and Singh, R. (2021). Recent Developments on Fractional Point Processes. In: Beghin, L., Mainardi, F., Garrappa, R. (eds) Nonlocal and Fractional Operators. SEMA SIMAI Springer Series, vol 26. Springer, Cham.
13. **Maheshwari, A.** and Vellaisamy, P. (2013). Some recent results on fractional diffusions. Fractional Calculus: Theory and Applications. Edited by Varsha Daftardar-Gejji, Narosa Publishing House, New Delhi, 169-190. URL: http://www.narosa.com/books_display.asp?catgcode=978-81-8487-333-7

TEACHING AT
IIM INDORE

Undergraduate courses:

Core: Numerical Analysis (2017 – 2019, 2021 – 2023), Probability-1 (2017–2023), Statistical Methods - 1 (2018), Differential Calculus (2020), Introduction to Business History (2022).

Elective: Stochastic Process - 1 (2019–20, 2022–23), Introduction to Stochastic Calculus (2018–2020, 2022–23), Stochastic Calculus - II (2019), Statistical Learning with Python (2019), Elections and Voting: A Mathematical Treatment (2020).

Postgraduate:

Core: Introduction to Business Statistics (2020–2022), Introduction to Social Science Research and Probability & Statistics (2021).

PhD courses:

Core: Applied Probability and Statistics (2019), Introduction to Business Statistics (2020).

Elective: Topics in Stochastic Processes (2019).

MDP: Decision making under uncertainty (Leadership MDP for BSF, 2 batches). Data Analytics for Supply Chain Management (Logistics MDP for Indian Army, 2 batches). Business Statistics (Annual FDP, 3 batches)

Online Learning Programs: Problem Structuring and Decision Making (APMCL 01–03), Business Statistics (EPOSCM 01/02), Storytelling with data (PGPCM Batch 05–10). Mathematics and Statistics for Risk Management (CPAFRM Batch 01). Introduction to R and Python (CPAFRM Batch 01). Machine Learning using Python (CPAFRM Batch 01). Business Analytics (MSDSM Batch 01). Business Statistics (PGCBM Batch 02).

ADMINISTRATION

Area Chair

Operations Management and Quantitative Techniques Area Apr 2019–Mar 2021.

EDUCATION

Ph.D. Mathematics, Department of Mathematics, IIT Bombay **Dec 2016**

M.Sc. Mathematics, University of Kota, Kota, Rajasthan **Jul 2009**

B.Sc. (PCM), University of Kota, Kota, Rajasthan **Jul 2007**

‘A’ level Advanced Diploma, NIELIT, erstwhile DOEACC Society **May 2008**

INVITED TALKS

- “Non-homogeneous space-time fractional Poisson processes” at University of Turin, May 23, 2019.
- “Fractional Poisson process” at IIT Ropar on May 25th, 2018.
- “Some Fractional Stochastic Processes” at IIM Indore, June 13, 2017.

AWARDS/
ACHIEVEMENTS

- Best Teacher Award 2018 at IIM Indore Sep 2018
- UGC Junior Research Fellowship Dec 2009
- Eligibility for Lectureship (NET) award Jun 2009

VISITING POSITION

- University of Turin, May 13, 2019 – June 6, 2019.
- University of Rome, June 7, 2019 – July 7, 2019.

CONTACT
INFORMATION

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