

Curriculum Vitae

MAYANK

S/o Shri DILIP SINGH

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PERSONAL INFORMATION

Father's Name : Shri Dilip Singh
Date of Birth : 26-06-1992
Nationality : Indian
Gender : Male
Languages Known : Hindi and English (Read and Write)
Marital Status : Married

AWARDS AND HONOURS

- **SRF at I.I.T. Roorkee Till 27 Dec 2018 to 07 July 2019**
- **JRF at I.I.T. Roorkee Till 26 Dec 2016 to 26 Dec 2018**
- **CSIR-UGC National Eligibility Test (NET-JRF), Dec-2015, AIR-172**
- **GATE 2016**

ACADEMIC QUALIFICATION

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	YEAR	%
Ph.D	Indian Institute of Technology Roorkee, Roorkee	Indian Institute of Technology Roorkee, Roorkee	2024	--
M.Sc(Mathematics)	S.G.R.R. (PG) College, Dehradun	HNB Garhwal University	2014	78.58
B.Sc (Physics, Mathematics, Chemistry)	S.G.R.R. (PG) College, Dehradun	HNB Garhwal University	2012	62.16
Intermediate (PCM)	AIC Subhash Nagar, Dehradun	Uttarakhand Board	2009	58.6
High-School	AIC Subhash Nagar, Dehradun	Uttarakhand Board	2007	52

RESEARCH PUBLICATIONS

- Singh, M., & Jain, M. (2023). Fluid approximation for a Markovian queue under disaster and reboot. International Journal of Operational Research, **In Press**.
- Singh, M., & Jain, M. (2023). Cost analysis of a transient Markovian queueing model with provision of options between regular and working vacation. International Journal of Mathematics in Operational Research, **In Press**.
- Jain, M., & Singh, M. (2020). Transient Analysis of a Markov Queueing Model with Feedback, Discouragement and Disaster. International Journal of Applied and Computational Mathematics, 6(2), 1-14.
- Jain, M., Rani, S., & Singh, M. (2019). Transient analysis of Markov feedback queue with working vacation and discouragement. In Performance Prediction and Analytics of Fuzzy, Reliability and Queuing Models (pp. 235-250). Springer, Singapore. **SIBN No-** 978-981-13-0856-7 (Print); 978-981-13-0857-4 (Online)
- Jain, Madhu, Sandeep Kaur, and Mayank Singh. "Unreliable Server Queue with Balking, Optional Service, Bernoulli Feedback and Vacation Under Randomized Policy." Advances in Interdisciplinary Research in Engineering and Business Management. Springer, Singapore, 2021. 305-322.
- Jain, Madhu, Mayank Singh, and Rakesh Kumar Meena. "Time-Dependent Analytical and Computational Study of an M/M/1 Queue with Disaster Failure and Multiple Working Vacations." Mathematical Analysis and Applications. Springer, Singapore, 2021. 293-304.

CONFERENCES, SEMINARS, WORKSHOP ATTENDED/ PRESENTED PAPER

- Attended **workshop** entitled "Applied Stochastic Models and Optimization (ASMO-17)" held at IIT Roorkee, during 26-27 May 2017.
- Presented a paper entitled "Transient solution of an M/M/1 queue with impatience and system disaster" in 20th Annual **National Conference** of Vijnana Parishad of India on "Mathematical Sciences and Scientific Computing for Industrial Development" held at Manipal University, Jaipur, during 24-26 November 2017.
- Presented a paper entitled "Transient solution of a Markovian feedback queue with impatience and system disaster" in the **International Conference** on "Recent Trends in Operations Research and Statistics (RTORS-2017)" held at IIT Roorkee, during 28-30 December 2017.

- Presented a paper entitled “Transient study of M/M/1 queue with provision of regular and working vacation” in 2nd **International Conference** of Vijnana Parishad of India on “Recent Trends of Computing in Mathematics, Statistics & Information Technologies (RTCMSIT-2018)” held at Bundelkhand University, Jhansi, during 09-11 March 2018.
- Presented a paper entitled “दो प्रकार के संचार के साथ एक M / M / 1 पुनःपर्याप्त पंक्ति निकाय का समय निर्भर समाधान” in **National Conference** by CSTT, MHRD, New Delhi on “अभियांत्रिकी समस्याओं का निदर्शन, इष्टमीकरण एवं अभिकलन: वैज्ञानिक तथा तकनीकी हिंदी शब्दावली का प्रयोग” held at IIT Roorkee, during 12-14 Oct 2018.
- Presented a paper entitled “दो प्रकार के संचार के साथ एक M / M / 1 पुनःपर्याप्त पंक्ति निकाय का संख्यात्मक विश्लेषण” in **National Conference** by CSTT, MHRD, New Delhi on “विज्ञान एवं प्रौद्योगिकी में निदर्शन, इष्टमीकरण एवं अभिकलन में तकनीकी हिंदी शब्दावली का प्रयोग” held at SRM Institute of Science and Technology, Delhi, during 26-28 April 2019.
- Attended **Online Lecture Series** entitled “Fuzzy Systems: Towards Experimental Study” organized by Soft Computing Research Society, India on Google Meet, during 30 May 2020- 01 June 2020.
- Attended **Online Induction/Orientation Training Programme** for Faculty organized by **Ramanujan Collage, University of Delhi**, during 26 June- 24 July 2020.
- Attended **E-Workshop** entitled “Stochastic Modeling, Optimization and Soft Computing (SMOSC-2020)” held Online during 10-14 August 2020, organized by **Department of Mathematics & Statistics, School of Basic Science, Manipal University Jaipur**.
- Attended **Online Webinar** entitled “Four Day Faculty Development Programme on APPLICATION OF MATHEMATICS IN ENGINEERING (Series-IV)” held Online during 25-28 August 2020, organized by **Department of Mathematics, KPR Institute of Engineering and Technology, Arasur, Coimbatore**.
- Presented a paper entitled “Time dependent analysis of a Markov queueing model with catastrophes, reboot and discouragement” at **International Conference** on “Emerging Issues in Business, Technology and Applied Sciences” held Online during 11-12 September 2020, organized by **of Modern Technology and Management Institute, Inc. (MTMI), U.S.A.**

- Presented a paper entitled “Time-dependent analytical and computational study of an M/M/1 queue with disaster failure and multiple working vacation” **at International Conference** on “Mathematical Analysis and Application (MAA-2020)” held Online during 02-04 November 2020, organized by **Department of Mathematics, National Institute of Technology, Jamshedpur.**
- Presented a paper entitled “Transient analysis of Markovian queueing model with disaster working vacation” **at 37th Annual National Conference** of The Mathematical Society-Banaras Hindu University on “Modern Mathematics and its Application (MMA-2022)” held Online during 29-30 January 2022, organized by **Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi.**
- Attended **two weeks refresher course on “Refresher Course on Applicable Mathematics”** organized by **Ramanujan Collage, University of Delhi**, during 26 July- 08 August 2022.

DECLARATION

I hereby declare that the information given above is true to the best of my knowledge.

(DATE): May 16, 2024

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