



Dr. NAJRULLAH KHAN

(ASSISTANT PROFESSOR)

Department of Community Medicine

Maharishi Markandeshwar College of Medical Sciences & Research
Sadopur, Ambala, Haryana-134007

Email: najrullahk90@gmail.com

Contact No. : +91-9761078370/9897269696

Scopus ID: [57203094829](#)

Researcher ID: [CAF-6084-2022](#)

ORCID: [0000-0002-0553-3493](#)

Google scholar: <https://scholar.google.com/citations?user=xzc7hEoAAAAJ&hl=en&authuser=1>

Research gate: https://www.researchgate.net/profile/Najrullah_Khan

Vidwan ID: <https://vidwan.inflibnet.ac.in/profile/208987>

Linkedin: www.linkedin.com/in/dr-najrullah-khan-87983b110

Coordinator of NAAC Criteria 2 (IIMT University, Meerut)

Academic Profile

- **2014- 2018: Ph.D. (Statistics)**

Aligarh Muslim University, Aligarh, India.

Thesis Title: Applications of Laplace Approximation in Bayesian Survival Analysis.

Area of Specialization: Bayesian Statistics, Survival Analysis, MCMC and Computational Statistics.

- **2013 : M.Sc. (Statistics)**

Aligarh Muslim University, Aligarh, India.

- **2011: B.Sc. (Hons.) (Statistics)**

Aligarh Muslim University, Aligarh, India.

- **2007 : Senior Secondary**

M.S.I. Inter College, Gorakhpur, UP Board, India.

- **2005 : Secondary Education**

P.I.C. Inter College, Maharajganj, UP Board, India.

Patents

1. REAL-TIME BAYESIAN NETWORK ANALYSIS FOR DYNAMIC DATA STREAMS:

- Application No. 202311027952, 19/05/2023

2. ANOMALY DETECTION IN MULTIVARIATE TIME SERIES DATA USING NONPARAMETRIC TECHNIQUES:

- Application No. 202311027951, 19/05/2023

3. ADAPTIVE MACHINE LEARNING MODEL FOR IMPROVED STATISTICAL INFERENCE:

- Application No. 202311027949, 19/05/2023

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4. METHOD AND SYSTEM FOR OPTIMIZING SAMPLING STRATEGIES IN SURVEY DATA COLLECTION:

- Application No. 202311027950, 19/05/2023

Teaching Experience

- Assistant Professor Cum Statistician in Department of Community Medicine, Maharishi Markandeshwar College of Medical Sciences & Research, Sadopur, Ambala from 01-01-2025 to till date.
- Assistant Professor (Statistics) in Sri Aurobindo College of Commerce & Management, Ludhiana, Punjab from January 2024 to December 2024.
- Assistant Professor in Department of Basic Science & Technology at IIMT University, Meerut from 15-02- 2019 to 15-12-2023.
- Conducted under National Skill Development Corporation Govt. of India, New Delhi (NPTEL/MOOCs, Spoken Tutorial)

Feb, 2014 – till date

- Taught Data Analysis with R, a final year postgraduate lab course.
- Taught Data Analysis with R, a final year undergraduate lab course.
- Conducted sessionals, quizzes, and examinations for undergraduate and postgraduate students.
- Assisted workshop on R and LATEX software packages organized for postgraduate students.
- Contributed in university level entrance examinations as an invigilator.
- Contributed in NEET examination as an invigilator.

Achievements

1. I was coordinator of **NAAC Criteria 2** at IIMT University, Meerut in 2022-23.
2. I was selected for the Basic Scientific Research (BSR) Fellowship by UGC, New Delhi, in 2015
3. Conducted as an **organizing secretary** of the National Seminar on "Emerging Applications of Smart Materials", March 15, 2019, Department of College of Basic Sciences and Technology, IIMT University, Meerut.
4. **New course for M.Sc. in Statistics (2021-2022)** has been started in IIMT University, Meerut and I have given major contribution to run this course.
5. I teach **R and Latex** software to my students.
6. Conducted as an **organizing secretary** of the International E-Conference on Current and Futuristic Approach in Science and Technology (ICFAST-2022), April 15-16, 2022, Department of College of Basic Sciences and Technology, IIMT University, Meerut.
7. Conducted as **Coordinator** of FDP of **6 Days Faculty Development Program on "Recent Trends in Data Science and Business Analytics"** Organized by Department of Computer Application, Meerut Institute of Technology, September 23-28, 2024

Teaching Area of Interest

- Survival Analysis and Reliability Theory
- Bio-Statistics and its applications
- Bayesian Modeling and Computation
- Probability Theory and Statistical Inference
- Linear Models
- Business Statistics(MBA)
- Quantitative Techniques for Managers(MBA)

Research Experience

Aligarh Muslim University

Department of Statistics and Operations Research

Feb, 2014 – Nov, 2018

- Ph.D. Supervisor: **Professor Athar Ali Khan** (Chairman, D/o Statistics & OR, AMU, Aligarh)

Research Area of Interest

- Survival Analysis and Reliability Theory
- Bio-Statistics and its applications
- Bayesian Modeling and Computation
- Statistical Computing and Data Analysis
- Probability Theory and Statistical Inference
- Linear Models

Postgraduate Projects Supervised

➤ 2023 Kappa Model with Laplace Approximation: A Bayesian Study

1. Divesh Sati
2. Riya
3. Sourav Sharma

Membership of Academic Bodies/Societies

- Lifetime membership of Indian Bayesian Society.

Research Publications

Published

1. **Khan, N.**, Akhtar, M. T. and Khan, A. A. (2016). A Bayesian Approach to Survival Analysis of Inverse Gaussian Model with Laplace Approximation. International Journal of Statistics and Applications, 6(6): 391-398. DOI:10.5923/j.statistics.20160606.08
2. **Khan, N.**, Akhtar, M. T. and Khan, A. A. (2017). Bayesian Analysis of Marshall-Olkin Family of Distributions. International Journal of Recent Scientific Research, 8(7): 18692-18699. DOI:10.24327/ijrsr.2017.0807.0551
3. **Khan, N.** and Khan, A. A. (2018). Bayesian Analysis of Topp-Leone Generalized Exponential Distribution. Austrian Journal of Statistics, 47(4) : 1-15. DOI:10.17713/ajs.v47i4.716
4. **Khan, N.** and Khan, A. A. (2023). A Bayesian Approach to Survival Analysis of Gompertz Model with R and JAGS. Information Sciences Letters, Inf. Sci. Lett. 12, No. 3, 1479-1496. doi:10.18576/isl/120336

Accepted

5. **Khan, N.** and Khan, A. A. (2020). Bayesian Analysis of Exponentiated Rayleigh Model with R and JAGS. Lectures Notes in Electrical Engineering (Springer).

Communicated

6. **Khan, N.** and Khan, A. A. (2022). Bayesian Survival Analysis of Exponentiated Kumaraswamy Exponential Model. **Journal of the Iranian Statistical Society.**
7. **Khan, N.** and Khan, A. A. (2022). Bayesian Survival Analysis of Exponentiated Exponential Model. **Annals of Data Science.**

Book Publications

Published

1. Dr. Sanghmitra Sharma, **Dr. Najrullah Khan**, Ms. Sheena Agarwal, Mr. Sunil Kumar (2023). Analysis of Variance and Design of Experiments: Publisher : Bluerose Publishers Pvt. Ltd.; First Edition (16 August 2023).

Software Skills

- R Software
- LaplacesDemon , JAGS/ WinBUGS
- LATEX, RStudio, SPSS and Microsoft.

Conferences & Workshops Attended/Paper Presented

1. Workshop on Data Analysis and Graphic with R Software, February 18-23, 2013, Department of Statistics and Operations Research, AMU Aligarh.
2. One Day Data Dissemination Workshop On Census-2011, November 19, 2014, Department of Statistics and Operations Research, AMU Aligarh.
3. V National Conference on “Statistical Inference Sampling Techniques and Related Areas” March 24-25, 2015, Department of Statistics & Operations Research, AMU Aligarh.
4. Workshop on Reliability Theory & Survival Analysis (WRSa 2015), November 2- 4, 2015, Department of Statistics, Punjab University Chandigarh.
5. International Conference on Statistics and Related Areas for Equality, Sustainability and Development (SRAESD-2015) In Conjunction with XXXV Annual Convention of Indian Society for Probability and Statistics (ISPS), November 28-30, 2015, Department of Statistics, University of Lucknow. (*Paper Presented*)
6. UGC Resource Development Center (HRDC), Short Term Course on Data Analysis/ SPSS & R/MINITAB, September 05-11, 2016, Department of Statistics and Operations Research, AMU Aligarh.
7. VIII International Symposium on Statistics and Optimization in Conjunction with XXXVI- Annual Convention of Indian Society for Probability & Statistics (ISPS), December 17-19, 2016, Department of Statistics and Operations Research, AMU Aligarh. (*Paper Presented*)
8. VIII International Symposium on Statistics and Optimization in Conjunction with XXXVI- Annual Convention of Indian Society for Probability & Statistics (ISPS), December 17-19, 2016, Department of Statistics and Operations Research, AMU Aligarh. (*Paper Presented*)
9. National Workshop on Scientific Writing Using Latex, February 14-20, 2017, Dr. ShakuntalaMisra National Rehabilitation University, Lucknow.
10. International Workshop Cum Seminar On Data Analysis using R, June 23-29, 2017, Dr. ShakuntalaMisra National Rehabilitation University, Lucknow.
11. 35th Annual Conference of Indian Society for Medical Statistics, November 02-04, 2017, Department of Biostatistics and Health Informatics, SGPGI, Lucknow. (*Paper Presented*)
12. National Seminar on "Emerging Applications of Smart Materials", March 15, 2019, Department of College of Basic Sciences and Technology, IIMT University, Meerut. (*Paper Presented*)

13. International E-Conference on Current and Futuristic Approach in Science and Technology (ICFAST-2022), April 15-16, 2022, Department of College of Basic Sciences and Technology, IIMT University, Meerut. (*Paper Presented*)

Reviewed Research Papers in Reputed Journals

1. Asian Journal of Probability and Statistics
2. Annals of Data Science (Springer).
3. Journal of Statistics Applications & Probability Letter (Natural Science Publication) (Scopus).
4. Journal of Statistics Applications & Probability Letter (Natural Science Publication) (Scopus).

Personal Details

- Father's Name : Mr. Asadullah Khan
- Nationality : Indian
- DOB : 15/03/1990
- Gender : Male
- Marital Status : Single
- Language : English, Hindi, Urdu
- P. Address : VPO - Baluwa, Distt – Maharajganj - 273302, UP, India

References

1. Professor Athar Ali Khan (Supervisor)

Chairman

Address: Department of Statistics and Operations Research
Aligarh Muslim University, Aligarh-202002, India

Email: atharkhan1962@gmail.com

Mobile No.: +91 9557484649

2. Professor Qazi Mazhar Ali

Address: Department of Statistics and Operations Research
Aligarh Muslim University, Aligarh-202002, India

Email: qmali.st@amu.ac.in

Mobile No.: +91 9897502827

3. Professor Rafiqullah Khan

Address: Department of Statistics and Operations Research
Aligarh Muslim University, Aligarh-202002, India

Email: aruke11@gmail.com

Mobile No.: +91 9411491582

Declaration

I hereby declare that all the above details furnished by me are true and correct to the best of my knowledge and belief.



(Dr. Najrullah Khan)