

Dr. Neera Kumari

(Assistant Professor)

School of Interdisciplinary Studies and Research, D. Y. Patil International University, Akurdi, Pune-411044, Maharashtra, India

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Objective

To work in a stimulating environment where I can apply and enhance my knowledge, skills to serve the firm to the best of my efforts.

Educational Qualifications

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|-------------|----------------------|--|
| 2019 | Ph.D. (Statistics) | Department of Statistics, University of Delhi, Delhi-110007.
Thesis Title: Some Contributions to Bayesian Estimation Procedures for Lifetime Models.
Thesis Supervisor: Prof. Ranjita Pandey |
| 2012 | M.Phil. (Statistics) | Department of Statistics, Ch. Charan Singh University, Meerut (U.P.).
Dissertation Title: Bayesian Reliability Estimation in Survival Analysis.
Dissertation Supervisor: Prof. Hare Krishna |
| 2011 | M.Sc. (Statistics) | Department of Statistics, Ch. Charan Singh University, Meerut (U.P.). |
| 2008 | B.Sc (PCM) | AS PG College, Mawana/ Ch. Charan Singh University, Meerut (U.P.). |

Area of Expertise

- **Area of Interest in Research:** Statistical Analysis in Health Data, Lifetime Distributions, Statistical Inference, Bayesian Inference and Sampling Theory.
- **Area of Interest in Teaching:** Statistics, Biostatistics, Business Statistics, Mathematics, Advanced Mathematics, R-Software, RStudio and Advanced Excel.
Topics in Statistics: Probability Theory, Probability Distributions, Statistical Inference, Bayesian Inference, Sampling Theory, Correlation and Regression Analysis, Time Series.
Topics in Mathematics: Linear Algebra, Real Analysis, Complex Analysis, Advanced Calculus, Trigonometric, Differential Equation, Partial Differential Equation, Differential Geometric, Numerical Analysis, Operation Research, Laplace Transformation, Discrete mathematics and Linear Programming Problem.
- **Computer Awareness and Programming Language Known:** MS Office, Advance Excel, Fortran, R, RStudio, SPSS, MatLab, Mathematica & Maple.

Work Experience

1. **Assistant Professor**, Department of Statistics and Mathematics, Baba Farid Institute of Technology, **Dehradun-248007**, Uttarakhand, India. 07-10-2019 to 07-10-2020.
2. **Assistant Professor**, Department of School of Engineering and Technology, D Y Patil International University, Akurdi, **Pune-411044**, Maharashtra, India Since 12-10-2020 till date.

Research Papers Published and Accepted in International & National Journals

1. Nadarajah, S., K, Sharma, S. N. & **Kumari, N.** (2023). Weibull Reliability Sampling Inspection Plans under Indeterminacy. *Quality Engineering*. **(Accepted)**
2. Pandey, R., Srivastava, P. & **Kumari, N.** (2020). On Some Inferential Aspects of Length Biased Log Logistic Model. *International Journal of System Assurance Engineering and Management*, Vol-12, Issue-1, 154-163, 0975-6809 (print), 0976-4348 (Online).). **(Springer)**
DOI: 10.1007/s13198-020-01027-1
3. **Kumari, N.** & Pandey, R. (2019). On Bayesian Parameter Estimation of Beta Log Weibull Distribution under Type-II Censoring. *Communications in Statistics-Simulation and Computation*, 47, 0361-0918 (print), 1532-4141 (online). **(Taylor & Francis)**
4. Pandey, R., Kumar, J. & **Kumari, N.** (2019). Bayesian Parameter Estimation of Beta Log Weibull Distribution under Type II Progressive Censoring. *Journal of Statistics and Management Systems*, Vol-22, Issue-5, P-(977-1004). **(Taylor & Francis)**
5. Pandey, R. & **Kumari, N.** (2018). Bayesian Analysis of Power Generalized Weibull Distribution. *International Journal of Applied and Computational Mathematics*, 4(6), ISSN-2349-5103. **(Springer)**
6. Pandey, R. & **Kumari, N.** (2018). Bayesian Estimation via numerical approximations under Progressive Type II Censoring. *International Journal of Scientific Research in Mathematical and Statistical Sciences*, 5(6), 362-379.
7. Pandey, R. & **Kumari, N.** (2018). Estimation for ISB p -dim Rayleigh distribution under progressive Type-II censored data using different loss functions. *International Journal of Engineering, Science and Mathematics*, 7(1), 467-476.
8. Pandey, R. & **Kumari, N.** (2018). Bayesian Estimation for ISB p -dim Rayleigh distribution under Type-II censored data using Lindley's Approximation. *World Wide Journal of Multidisciplinary Research and Development*, 4(1), 207-211.
9. Pandey, R. & **Kumari, N.** (2017). Bayesian estimation for inverse size biased p -dimensional Rayleigh distribution. *International Journal of Essential Sciences*, 11(1 & 2), 16-24.
10. Pandey, R. & **Kumari, N.** (2016). A new lifetime distribution for modeling monotonic decreasing survival patterns. *Journal of Reliability and Statistical Studies*, 9(2), 53-70.

Papers Presented in Conferences

1. Ranjita Pandey and **Neera Kumari** (2015), "Bayesian Estimation Procedure for Beta Log Weibull Distribution under Some Loss Functions with Type-II Censoring Scheme", **International Conference on Statistics and Related Areas for Equity, Sustainability and Development**

(SRAESD-2015) in Conjunction with XXXV Annual Convention of Indian Society for Probability and Statistics (ISPS) in 28-30th November, 2015 organized by Department of Statistics, **University of Lucknow**, Lucknow.

2. Ranjita Pandey and **Neera Kumari** (2015), "Bayesian Estimation Procedure of Power Generalized Weibull Probability Distribution under Type-II Censoring data with MCMC approach", 7th **international conference** on quality, reliability, Infocom Technology and Business Operations (trends and future directions) in 28-30 December, 2015 organized by Society for Reliability Engineering, Quality and Operations Management (SREQOM), Department of Operational Research, **University of Delhi, Delhi**.
3. **Neera Kumari** (2015), "Bayesian Estimation of Parameters of Power Generalized Weibull Distribution under Type-II Censoring", National Seminar on use of Statistics in Industry and Corporate World (NSSICW) in 25-26, October, 2015 organized by Department of Statistics, Faculty of Science, Banaras Hindu University, Varanasi.
4. **Neera Kumari** (2015), "Bayesian Estimation for the Inverse Size-Biased p -Dimensional Rayleigh Distribution" on **National Conference** on Advances in Mathematical Science and its Applications in February 20-21, 2015 jointly organized by Indian Society of Mathematics and Mathematical Sciences (ISMAMS) and Department of Mathematics and Statistics, D.D.U. **Gorakhpur University**, Gorakhpur.

Workshops, Webinars and Conferences Attended

1. Participated in the National Workshop on, "A short Course on Introduction to Bayesian Statistical Modelling" (January 27-31, 2013) at Department of Statistics, **Banaras Hindu University**, Varanasi, India.
2. Participated in the National Workshop on, "Statistical Computing using R" (September 14-15, 2013) at Department of Statistics, **University of Delhi**, New Delhi, India.
3. Participated in the Workshop on, "Information Literacy and Competency" (December 4, 2014) at Delhi University Library system, **University of Delhi**, India.
4. Participated in the Workshop on, "Research Metrics" (February 26, 2015) at Research council & Delhi University Library system, **University of Delhi**, New Delhi, India.
5. Participated in the Workshop on, "Mathematical Modelling and Computational Techniques using Mathematica" (March 30-31, 2017) at Department of Mathematics, Zakir Husain Delhi College, **University of Delhi**, New Delhi India.
6. Participated in the Online International Webinar (E-Conference) on, "Prospective of Interdisciplinary Research in Science and Technology in the Present Scenario" (May 15-16, 2020) at Department of Physics, **CCS University, Meerut**, Uttar Pradesh, India.
7. Participated in the Online Webinar, "Brand U development and Learning the Basics of Creating a Future with AI" (May 22nd, 2020) at **Global Institute of Technology, Jaipur**, India.
8. Participated in the Online Webinar on, "Happiness and Public Policy in the wake of COVID-19" (May 25th, 2020) at Department of Commerce and IQAC, Dyal Singh College, **University of Delhi**, Delhi, India.

9. Participated in the Online Webinar on, "Statistics & Data Analytics : Trending Career Options An Informative Webinar Stretching Vistas for Students" (May 27th, 2020) at Department of Statistics, **N.A.S. College**, Meerut, India.
10. Participated in the Online National Webinar on, "Data Analytics and Statistical Computing" (May 27th, 2020) at Department of Statistics, Institute of Social Sciences, Dr. Bhimrao Ambedkar University, Agra, India.
11. Participated in the Online International Webinar on, "MATLAB Applications in Sciences and Engineering" (May 29th, 2020) at **Baba Farid College, Patiala**, India.
12. Participated in the Online International Webinar on, "Quintic and Quinticated Nonlinear Oscillators" (June 17th, 2020) at Department of Civil Engineering, Poornima College of Engineering, Under Matrix Project, SERB, DST, India.
13. Participated in the Online International Webinar on, "National Seminar on Recent Trends in Statistical Theory and Applications-2020" (NSSTA-2020) (June 29th to July 1st, 2020) at **ISPS, KSA and Department of Statistics, University of Kerala**, Trivandrum, India.
14. Participated in the Online Webinar on, "New Global Challenges and Opportunities: What Lies Ahead for India?" (July 2nd, 2020) at Department of Commerce, Sri Aurobindo College, **University of Delhi**, India.
15. Participated in the Online Workshop on, "Data Analysis with Excel" (March 5th, 2023) at COMM CAD, India. (Certificate ID: LMTFRTANCGDJSQ)

FDP and Trainings Programs Attended

1. One week training course attended on **Advance Excel** at Delhi University Computer Center, **University of Delhi**, Delhi, India. (8th Dec. 2014 to 19th Dec. 2014)
2. One week training course attended on **Introduction to MatLab** at Delhi University Computer Center, **University of Delhi**, Delhi, India. (24th Oct. 2016 to 28th Oct. 2016)
3. One week skill training programme on **Data Analysis** at Centre for Science Education and Communication, **University of Delhi**, Delhi, India. (20th June 2017 to 24th June 2017)
4. Two week Interdisciplinary Faculty Development Programme on **Data Analysis using Software Packages** at Department of Statistics & IQAC, Hindu College, **University of Delhi**, Delhi, India. (12th Dec. 2018 to 24th Dec. 2018)
5. One week online Faculty Development Programme on **Mind-Sets, Knowledge-Sets and Skill-Sets for 21st Century Youth: Innovations and Adaptations** by IQAC, Shri Ram College of Commerce, **University of Delhi**, Delhi, India. (27th May to 3rd June 2020)
6. One Month Online Introductory Course on **Research Methodology and Biostatistics** by Institute of Applied Statistics, NIMS and ICMR, New Delhi, Delhi, India . (24th Aug to 25th Sep 2020)
7. Two week online National Faculty Development Program/Refresher Course on **Emerging Accessible Technologies for Teachers in Higher Education** at (Jointly) Maitrey College, University of Delhi and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, **University of Delhi** under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching of Ministry of Education (**PMMNMTT**). (20th March to 3rd April, 2021).

Internship (B.Tech. Bioengineering) in Supervision: 15 Students

- **Statistical Analysis of Covid - 19 in India**, Department of Bioengineering School of Biosciences and Bioengineering, D. Y. Patil International University, Akurdi, Pune, Maharashtra, India, Pincode-411044. (**Rutuja Arvind Rathod and Abhishek Bharat Parmar**)-2021.
- **Analysis of Cancer Patients Data using Statistical Techniques**, Department of Bioengineering School of Biosciences and Bioengineering, D. Y. Patil International University, Akurdi, Pune, Maharashtra, India, Pincode-411044. (**Siddhi Mahesh Talgaonkar**)- 2021.
- **Analysis of AIDS and Diabetics Patient using Quantitative Technique**, Department of Bioengineering School of Biosciences and Bioengineering, D. Y. Patil International University, Akurdi, Pune, Maharashtra, India, Pincode-411044. (**Siddhesh Wadkar, Pritam Wanve, Srushti Pisal**)- 2021.
- **Statistical Analysis of Biological Data using Weibull Distribution**, Department of Bioengineering School of Biosciences and Bioengineering, D. Y. Patil International University, Akurdi, Pune, Maharashtra, India, Pincode-411044. (**Vaishnavi Ramani**)-2021.
- **Statistical Analysis of Diabetes Patients using R-Programming**, Department of Bioengineering School of Biosciences and Bioengineering, D. Y. Patil International University, Akurdi, Pune, Maharashtra, India, Pincode-411044. (**Angshumali Bhattacharya, Khusi Sonawane, Anagha Pande**)-2022.
- **Impact of Bioinformatics against Development of Covid-19 Vaccine**, Department of Bioengineering School of Biosciences and Bioengineering, D. Y. Patil International University, Akurdi, Pune, Maharashtra, India, Pincode-411044. (**Kanchan Rajendra Choudhari**)-2022.
- **Statistical Analysis of Cancer Detection Machine in India**, Department of Bioengineering School of Biosciences and Bioengineering, D. Y. Patil International University, Akurdi, Pune, Maharashtra, India, Pincode-411044. (**Pratik Kundap, Pranjal Wagmare, Sohail Sadvekar, Kush Topiwala**)-2022.

Invited for Chief Guest

- International day for the person with disability, IIRDDA, Assam

Paper Reviewed and Achievements

- Refereed of **six papers** in PLOS ONE, JRSS etc.
- Non-NET fellowship from 2013 to 2017 during Ph.D.
- Refereed **One Paper** in International Journal of Statistics and Applied Mathematics

Member of Professional Bodies

- Indian Bayesian Society- Life Membership
- IJBST Journal- Editorial Board Member
- **Assistant Editor** of International Journal of Statistics and Applied Mathematics.
- Board of Director Women's Rights of IIRDDA, Assam.

References

- **Prof. Ranjita Pandey**, Professor/HOD, Department of Statistics, University of Delhi, Delhi-110007. Email/Phone: ranjitapandey111@gmail.com/+91-9868539655.
- **Prof. Hare Krishna**, Professor, Department of Statistics, Dean, Engineering & Technology, Ch. Charan Singh University, Meerut (Formerly Meerut University) (U.P.) INDIA, PIN-250004. Email/Phone: hkrishnastats@yahoo.com/+91-9897142947.
- **Dr. Richa**, Assistant Professor Senior Grade-I, Department of Computer Science and Engineering, BIT Mesra, Ranchi, Jharkhand-835215, India. Email/Phone: richasingh.bv@gmail.com/8285340125.
- **Dr. Kapil Sharma**, Associate Professor, D. Y. Patil International University, Akurdi, Pune, Maharashtra-411044, India. Email/Phone: iitbkapil@gamil.com/8130634014.

Strengths

- Ability to work in a new and challenging environment.
- Willingness to learn new skills and concepts.
- Honest and Hardworking with Positive Attitude.

Personal Details

Name : Dr. Neera Kumari

Father's Name : Ranveer Singh

Mother's Name : Mrs. Gyanwati

DOB : 02/02/1987

Marital Status : Single

Nationality : Indian

Languages : English, Hindi

Permanent Residence : Vill. Rehmapur, Post. Behsuma, Dist. Meerut (U.P.) -250404.

Corresponding Address: Dr. Neera Kumari, Department of School of Interdisciplanay Studies and Research, D. Y. Patil International University, Akurdi, Pune, Maharshtra, India, Pincode-411044.

Declaration

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Pune

Name: Dr. Neera Kumari