

Dr. Abhimanyu Singh Yadav

Department of Statistics
Banaras Hindu University
Varanasi-221005, India.

✉ abhistats@bhu.ac.in ☎ +91-9506395612



Employment History

- 2019 – till date **Assistant Professor** in the Department of Statistics, Banaras Hindu Varanasi-221005, U. P. India.
- 2017 – 2019 **Assistant Professor** in the Department of Statistics, Central University of Rajasthan, Ajmer-305817, Rajasthan, India.
- 2014 – 2017 **Assistant Professor** in the Department of Statistics, PUC, Mizoram University, Aizawl-796001, Mizoram, India.

Education

- 2011 – 2015 **Ph.D., Statistics** from Banaras Hindu University, Varanasi, India.
- 2009 – 2011 **M.Sc. Statistics** from Banaras Hindu University, varanasi, India.
Division and Percentage: *First with 83.40 %*
- 2006 – 2009 **B.Sc. (Hons.) Statistics** from Banaras Hindu University Varanasi, India.
Division and Percentage: *First with 65.44 %*
- 2004-2006 **Intermediate Maths Group** from Uttar Pradesh Board, Allahabad, India.
Division and Percentage: *First with 76.00 %*
- 2002-2004 **High-School Science Group** from Uttar Pradesh Board, Allahabad, India.
Division and Percentage: *First with 72.66 %*

Awards and Achievements

- 2024 **Received Global Post-Doctoral Research Fellowship Under Institute of Eminence Scheme BHU.**
- 2014 **Received Senior Research Fellowship (SRF).**
- 2012 **Qualified UGC-NET Dec-2011 and awarded by junior research fellowship (JRF).**
- 2011 **Qualified GATE in Mathematics.**
- 2010 **Cash Prize for Outstanding Student Performance in M.Sc. Course, Department of Statistics, BHU Varanasi-221005.**
- 2006 **Received School Prize (Block level) for Outstanding Student Performance in Intermediate board examination.**
- 2004 **Received School Prize (Block level) for Outstanding Student Performance in 10th board examination.**

Research Interest

- Statistical Inference

- Statistical Computation
- Distribution Theory
- Reliability Inferences Using Censored Data

Research Projects/Grant

- Bayesian Analysis of Lifetime Models-Application to the Survival Data funded by RUSA 2.0-MHRD funded Research and Innovation. [**Role: Co-PI, Amount: Rs. 1350000**]
- Development of the new lifetime models: Estimation and Application funded by Institute of Eminence BHU. [**Role: PI, Amount: Rs. 1100000**]
- Value of First Aid and CPR for the Well- Being of Humans After the Covid-19 Pandemic funded by Institute of Eminence BHU. [**Role: Co-PI, Amount: Rs. 150000**]

Research Publications

1. Koley, D., Dey, S., & Yadav, A. S. (2025). Some Characterizations of Log-Cauchy Distribution and Its Inferential Exploration Under Progressive First-Failure Censoring Scheme. *Quality and Reliability Engineering International*, 2025; 0:1–19. <https://doi.org/10.1002/qre.70059>
2. Saha, M., Yadav, A. S., Bhattacharya, A., Maiti, S. S., & Gupta, A. (2025). Bayesian estimation of unified generalized process capability index for logistic-exponential distribution under progressive type II censoring scheme. *Engineering Applications of Artificial Intelligence*, 160, 111868.
3. Saha, M., Gopal, G., & Yadav, A. S. (2025). Bayesian estimation of the process capability index C_{pc} under type II progressive censoring scheme. *International Journal of System Assurance Engineering and Management*, 1-17.
4. Kumar, A., & Yadav, A. S. (2025). A new class of ArcSin Topp-Leone probability distribution: classical estimation and its application to real data. *Life Cycle Reliability and Safety Engineering*, 1-20.
5. Tripathi, H., Yadav, A. S., Saha, M., & Kumar, S. (2025). Generalized Inverse Xgamma Distribution: Properties, Estimation and Its Applications To Survival Data. *Thailand Statistician*, 23(3), 573-597.
6. Yadav, A. S., Singh, S. K., & Saha, M. (2025). On the Estimation of Generalized Lifetime Performance Index Based on Exponentiated Exponential Distributed Characteristics Under Progressive Censoring. *Quality and Reliability Engineering International*, 41(4), 1613-1629.
7. Yadav, S., Singh, S. K., & Yadav, A. S. (2025). Stress-strength reliability estimation of xgamma distribution under generalized progressive hybrid censoring scheme. *Life Cycle Reliability and Safety Engineering*, 1-25.
8. Yadav, A. S., Saha, M., & Dey, S. (2025). Classical and Bayesian estimation of the reliability characteristics for logistic-exponential distribution. *Afrika Matematika*, 36(1), 34.
9. Yadav, A. S., Saha, M., & Dey, S. (2025). Classical and Bayesian estimation of the reliability characteristics for logistic-exponential distribution. *Afrika Matematika*, 36(1), 34.

10. Tahir, M., Singh, S. K., & Yadav, A. S. (2025). Log transformed transmuted exponential distribution: an increasing hazard rate model to deal with cancer patients data. *Stochastic Models in Probability and Statistics*.
11. Saha, M., Dey, S., Maiti, S. S., & Yadav, A. S. (2025). A Comparative Study of Six Process Capability Indices and Their Applications to Electronic and Food Industries. *Stochastics and Quality Control*, 40(1), 33-44.
12. Yadav, A. S., Shukla, S. ., Saha, M., Koley, D., & Jaiswal, N. . (2024). On Progressively Type-II Censored Inverse Lomax Distribution: Characterizations, Estimation and Application to Cancer Data: Accepted - December 2024. *REVSTAT-Statistical Journal*.
<https://doi.org/10.57805/revstat.vi.696>.
13. M. Saha, A. Devi, Abhimanyu S. Yadav and S. S. Maiti (2024). Evaluation of a novel loss-based process capacity index and its applications. *Int J Syst Assur Eng Manag* (2024).
<https://doi.org/10.1007/s13198-023-02235-1>.
14. Jha, A., Sharma, V. K., & Yadav, A. S. (2024). Identifying The Probability Distribution Models of Economic Losses Due to Natural Disasters. *Reliability: Theory & Applications*, 19(2 (78)), 156-169.
15. Abhimanyu Singh Yadav (2023). Bayesian estimation for the type-I hybrid xgamma distribution using asymmetric loss function. *Pakistan Journal of Statistics and Operation Research*, 19(1), 27-49.
16. Singh Yadav, A., Shukla, S., Jaiswal, N., Singh, S. K., & Koley, D. (2023). Development and Estimation of Weighted Xgamma Exponential Distribution with Applications to Lifetime Data. *Statistica*, 83(4), 247-269. <https://doi.org/10.6092/issn.1973-2201/16940>
17. Abhimanyu S. Yadav, S. Sen, S. S. Maiti, M. Saha and S. Shukla (2023). Some Further Properties and Bayesian Inference for Inverse xgamma Distribution Under Progressive Type-II Censored Scheme. *Annals of Data Science*, 10, 455-479, <https://doi.org/10.1007/s40745-020-00286-w>.
18. Abhimanyu S. Yadav, M. Saha, A. Bhattacharya and Arindam Gupta (2023). Assessment of generalized lifetime performance index for Lindley distribution using progressive type-ii sample. *Reliability Theory and Application*, No. 4 (76), Vol 18.
19. Abhimanyu Singh Yadav, Shukla, S., Hafida Goual, Mahendra Saha, & Haitham M. Yousof. (2022). Validation of Xgamma Exponential Model via Nikulin-Rao-Robson Goodness-of- Fit-Test under Complete and Censored Sample with Different Methods of Estimation. *Statistics, Optimization & Information Computing*, 10(2), 457-483. <https://doi.org/10.19139/soic-2310-5070-1107>.
20. Mahendra Saha, Abhimanyu Singh Yadav, G. Srinivasa Rao, Sanku Dey and Bipul Sarkar (2022). Control chart using bootstrap method for logistic-exponential percentiles, 137-143, <http://dx.doi.org/10.37398/JSR.2022.660517>.
21. Abhimanyu S. Yadav, P. K. Vishwakarma, H. S. Bakouch, S. Chauhan & U. Kumar (2022). Confidence intervals for the reliability characteristics via different estimation methods for the power Lindley model, *Reliability theory and Application*, No. 4 (71), Vol. 17. DOI: 10.24412/1932-2321-2022-471-392-412.
22. Shivanshi Shukla, Abhimanyu Singh Yadav, G. Srinivas Rao, Mahendra Saha, Harsh Tripathi (2022). Alpha Power Transformed Xgamma Distribution and Applications to Reliability, Survival and Environmental Data, *Journal of Scientific Research*, BHU, 66(3), 330-346.

23. S. K. Singh, Suraj Yadav and Abhimanyu Singh Yadav (2022). Statistical properties and estimation procedures for a new flexible two parameter lifetime distribution, *Reliability theory and Application*, No. 4 (71), Vol. 17. DOI: 10.24412/1932-2321-2022-471-311-330.
24. S. Kumar, Abhimanyu S. Yadav, Sanku Dey and M. Saha (2022). Parametric inference of generalized process capability index C_{pyk} for the power Lindley distribution, *Quality Technology & Quantitative Management*, (2022), 19 (2), 153-186. (Impact factor: 3.13)
25. Abhimanyu Singh Yadav, Hassan S. Bakouch, and Christophe Chesneau (2022). Bayesian estimation of the survival characteristics for Hjorth distribution under progressive type-II censoring, *Communications in Statistics-simulation and computation*.
<https://doi.org/10.1080/03610918.2019.1659363>.
26. Sandeep K. Maurya, Abhimanyu Singh Yadav, Sanjay K. Singh & Umesh Singh (2021) A new flexible logarithmic transform heavy-tailed distribution and its applications, *Journal of Statistics and Management Systems*, 24:5, 917-950, DOI: 10.1080/09720510.2020.1800227.
27. Mahendra Saha, Sanku Dey, Abhimanyu Singh Yadav and Sajid Ali (2021). Confidence intervals of the index C_{pk} for normally distributed quality characteristics using classical and Bayesian methods of estimation. *Brazilian Journal of Probability and Statistics*, Vol. 35, No. 1, 1–20. <https://doi.org/10.1214/20-BJPS469>. (Impact factor: 0.632)
28. Abhimanyu Singh Yadav, Mahendra Saha, Harsh Tripathi and Sumit Kumar (2021). The Exponentiated Xgamma Distribution: A New Monotone Failure Rate Model and Its Applications to Lifetime Data, *STATISTICA*, anno LXXXI, n. 3, 2021.
29. Abhimanyu Singh Yadav, H. S. Bakouch, S. K. Singh and Umesh Singh (2021). Estimation procedures for a flexible extension of Maxwell distribution with data modelling, *Reliability Theory & Applications*, 4 (65) Volume 16.
30. Abhimanyu Singh Yadav, Mahendra Saha, Shivanshi Shukla, Harsh Tripathi and Rajashree Dey (2021). Reliability Test Plan Based on Logistic-Exponential Distribution and Its Application, *Journal of Reliability and Statistical Studies*, Vol. 14, Issue 2 (2021), 695–724. doi: 10.13052/jrss0974-8024.14215.
31. Abhimanyu Singh Yadav, S. K. Singh and Umesh Singh (2020). Statistical properties and different methods of estimation for extended weighted inverted Rayleigh distribution. *Statistics in Transition New Series*. Volume 21, Issue 2, Pages 119-141, DOI: <https://doi.org/10.21307/stattrans-2020-016>.
32. Abhimanyu Singh Yadav, Dinesh Kumar, Pawan K. Chauhan, S. K. Singh and Umesh Singh (2020). A New Transmuted Lifetime Distribution: Statistical Properties and Application to Survival Data, *Journal of Scientific Research* 64(01):127-137.
33. Abhimanyu Singh Yadav, Hafida Goual, Refah Mohammed Alotaibi, Rezk H, M. Masoom Ali and Haitham M. Yousof (2020). Validation of the Topp-Leone-Lomax Model via a Modified Nikulin-Rao-Robson Goodness-of-Fit Test with Different Methods of Estimation, *Symmetry*, MDPI, 12 (57), 1-26. <https://www.mdpi.com/2073-8994/12/1/57>.
34. Mahendra Saha, Sanku Dey, Abhimanyu Singh Yadav and Sumit Kumar (2019). Classical and Bayesian inference of C_{py} for generalized Lindley distributed quality characteristic, *Quality Reliability Engineering International*, 35:8, 2593-2611. <https://doi.org/10.1002/qre.2544>. (Impact factor: 1.718)

35. Mahendra Saha, Sumit Kumar, Sudhansu S. Maiti, Abhimanyu Singh Yadav & Sanku Dey (2019): Asymptotic and Bootstrap Confidence Intervals for the Process Capability Index Cpy Based on Lindley Distributed Quality Characteristic, American Journal of Mathematical and Management Sciences, DOI: 10.1080/01966324.2019.1580644.
36. Mohamed Ibrahim, Abhimanyu Singh Yadav, Haitham M. Yousof, Hafida Goual, G.G. Hamedani (2019). A new extension of Lindley distribution: modified validation test, characterizations and different methods of estimation, Communications for Statistical Applications and Methods 2019 Sep; 26(5):473-95, <https://doi.org/10.29220/CSAM.2019.26.5.473>.
37. Abhimanyu Singh Yadav, Sudhansu S. Maiti, Mahendra Saha (2019). The Inverse Xgamma Distribution: Statistical Properties and Different Methods of Estimation, Annals of Data Science. <https://doi.org/10.1007/s40745-019-00211-w>.
38. Abhimanyu Singh Yadav, Emrah Altun and Haitham M. Yousof (2019). Burr–Hatke Exponential Distribution: A Decreasing Failure Rate Model, Statistical Inference and Applications, Annals of Data Science, <https://doi.org/10.1007/s40745-019-00213-8>.
39. Abhimanyu Singh Yadav, S. K. Singh and U. Singh (2019). Bayesian estimation of $R=P[Y<X]$ for inverse Lomax distribution under progressive type-II censoring scheme, Int J Syst Assur Eng Manag, <https://doi.org/10.1007/s13198-019-00820-x>.
40. Abhimanyu Singh Yadav (2019). The Inverted Exponentiated Gamma Distribution: A Heavy-Tailed Model with Upside Down Bathtub Shaped Hazard Rate. Statistica, 79(3), 339–360.
41. Abhimanyu Singh Yadav, S. K. Singh and U. Singh (2019). Bayesian estimation of stress–strength reliability for Lomax distribution under type-II hybrid censored data using asymmetric loss function, Life Cycle Reliability and Safety Engineering, <https://doi.org/10.1007/s41872-019-00086-z>.
42. Mahendra Saha, Sumit Kumar and Sudhansu S. Maiti, Abhimanyu Singh Yadav (2018). Asymptotic and bootstrap confidence intervals of generalized process capability index Cpy for exponentially distributed quality characteristic, Life Cycle Reliability and Safety Engineering, <https://doi.org/10.1007/s41872-018-0050-z>.
43. Abhimanyu Singh Yadav, Mahendra Saha, S. K. Singh and U. Singh (2018). Bayesian estimation of the parameter and the reliability characteristics of xgamma distribution using Type-II hybrid censored data, Life Cycle Reliability and Safety Engineering, <https://doi.org/10.1007/s41872-018-0065-5>.
44. Abhimanyu Singh Yadav, S. K. Singh and U. Singh (2018). Statistical properties and estimation procedure for transmuted inverted exponential distribution: application to bladder cancer data, Journal of Reliability and Statistical Studies; Vol. 11, Issue 2 (2018): 81-98.
45. Abhimanyu Singh Yadav, S. K. Singh and Umesh Singh (2018): Estimation of stress–strength reliability for inverse Weibull distribution under progressive type-II censoring scheme, Journal of Industrial and Production Engineering, DOI:10.1080/21681015.2017.1421590.
46. Abhimanyu Singh Yadav and Min Yang (2018). On Type-II hybrid Censored Two Parameter Rayleigh Distribution, International Journal of Mathematics and Computation, 29(1), 11-24.
47. Sanjay Kumar Singh Umesh Singh Abhimanyu Singh Yadav (2017). Bayesian estimation of Lomax distribution under type-II hybrid censored data using Lindley's approximation method, Int. Journal of Data Science, Vol. 2, No. 4, pp 352–368.

48. Umesh Singh, S. K. Singh and Abhimanyu Singh Yadav (2016): On Hybrid Censored Inverse Lomax Distribution: Application to the Survival Data, *International STATISTICA*, anno LXXVI, n. 2
49. Umesh Singh, S. K. Singh, Abhimanyu Singh Yadav and Rajwant Singh (2016): Marshall-Olkin Extended Exponential Distribution: Different Method of Estimation, *Journal of Advanced Computing*, Vol. 5 No. 1 pp. 12-28.
50. Abhimanyu Singh Yadav, S. K. Singh and Umesh Singh (2016), "Bayes Estimator of the Parameter and Reliability function of Marshall-Olkin Exponential Distribution Using Hybrid Type-II Censored Data" *Journal of Statistics and Management Systems*, 19:3, 325-344, DOI: 10.1080/09720510.2014.943091
51. S. K. Singh, Umesh Singh and Abhimanyu Singh Yadav (2016). Reliability Estimation for Inverse Lomax Distribution Under Type-II Censored Data Using Markov Chain Monte Carlo Method, *International Journal of Mathematics and Statistics*, 17(1), 128-146.
52. S. K. Singh, U Singh, Abhimanyu Singh Yadav and P. K. Vishwakarma (2015). On the estimation of stress strength reliability parameter of inverted exponential distribution, *Int. Journal of Scientific World*, 3(1), 98-112, 2015. DOI: 10.14419/ijsw.v3i1.4329.
53. Umesh Singh, S. K. Singh and Abhimanyu Singh Yadav (2015): Bayesian Estimation in Exponentiated Gamma Distribution Under Progressive Censoring Using Different Approximation Techniques, *Journal of Data Science* Vol.13, 549-566.
54. Umesh Singh, S. K. Singh and Abhimanyu Singh Yadav (2015): Reliability Estimation and Prediction In Extension of Exponential Distribution using informative and Non-informative Priors" in *Int. J. Syst. Assur. Eng. Manag*, 6(4):466-478.
55. Umesh Singh, S. K. Singh and Abhimanyu Singh Yadav (2015): Bayesian Estimation for Extension of Exponential Distribution Under Progressive Type-II Censored Data Using Markov Chain Monte Carlo Method *J. Stat. Appl. Pro.* 4, No. 2, 275-283.
56. Umesh Singh, S. K. Singh and Abhimanyu Singh Yadav (2014): Bayesian Estimation of Marshall-Olkin extended exponential Parameters Under various Approximation Techniques, *Hecettepe Journal of Mathematics and Statistics*, Volume 43 (2), 1 -13.
57. S. K. Singh, U Singh and Abhimanyu Singh Yadav (2014). Bayesian Reliability estimation in extension of exponential distribution for Progressive type-II censored data with Binomial Removals using different loss function, *Int. journal of economics and Statistics*, 31(1), 19-39.
58. S. K. Singh, U. Singh and Abhimanyu Singh Yadav (2014): Discrimination of Models and Adaptive Bayes Estimator of the Parameters, *STM Journals of Statistics* (2014) 99-108.
59. Umesh Singh, S. K. Singh and Abhimanyu Singh Yadav (2014): Parameter estimation of Marshall-Olkin exponential distribution under Hybrid Type-I censoring scheme, "Journal of Statistics application and Probability" *J. Stat. Appl. Pro.* 3, No. 2, 1-11.
60. Umesh Singh, S. K. Singh, Abhimanyu Singh Yadav and P. K. Vishwakarma (2014): Bayesian Reliability Estimation in Inverted Exponential Distribution under Progressive Type-II Censored Data, *Journal of Statistics application and Probability" J. Stat. Appl. Pro.* 3, No. 3, 1-21 (2014).
61. Umesh Singh, S. K. Singh and Abhimanyu Singh Yadav (2014): Reliability Estimation of Marshall-Olkin extended exponential distribution Under Type-II Censoring Scheme Using MCMC Method, *Journal of Applied Statistical Science*, Volume 21, Number 4, pp. 365-376.

Conference Presentation

A. International Presentation

1. International Conference on Role of advanced statistical tools for sustainable development, organized by Department of Statistics, University of Rajasthan, Jaipur, September 23-25, 2022.
Paper Presented: Some further characteristics and survival estimation of Inverse Lomax Distribution under Progressive Censoring Scheme
2. International Conference on Emerging Methodologies in Theoretical and Applied Statistics, Organized by Department of Statistics, BHU, Varanasi-221005, September 18-20, 2018.
Paper Presented: Power Maxwell Distribution: Statistical Properties, Estimation and Applications.
3. VIII International Symposium on Statistics and Optimization in conjunction with XXXVI Annual Convention of ISPS, Organized by Department of Statistics and Operation research, Aligarh Muslim University, Aligarh, December 17-19, 2016.
Paper Presented: Bayesian Estimation for Stress-Strength Reliability Parameter Under Progressive Censoring Scheme.
4. International Conference of the Indian Mathematics Consortium in cooperation with American Mathematical Society, Organized by DST-Centre for Interdisciplinary mathematical Sciences, BHU Varanasi, December 14-17, 2016.
Paper Presented: Estimation of Stress-Strength Reliability Parameter $R=P[Y<X]$ for Lomax Distribution under Hybrid Censoring.
5. International Conference on Current Scenario and Prospect of Nanotechnology and Bio-Statistics, Organized by School of Sciences, U. P. Rajarshi tendon Open University, Allahabad, UP, February 25-26, 2016.
Paper Presented: Bayesian Estimation for Exponentiated Gamma Distribution Using Progressive Type-II Censored Data.
6. International Conference on Recent Advances in Statistics and their Applications Organized by Department of Statistics, Dr. BRAM University Aurangabad, December 26-28, 2013.
Paper Presented: Bayesian Reliability Estimation In Extension of Exponential Distribution for Progressive Type II Censored Data.
7. ISBA Regional Meeting and International Workshop/Conference on “Bayesian Theory and Applications (IWCBTB)” DST-CIMS & Department of Statistics, Banaras Hindu University, Varanasi, January 6-10, 2013.
Paper Presented: Discrimination of Models and adaptive Bayes Estimators of the Parameters (Poster Session).
8. International Conference on “Recent Advanced in Mathematical Statistics and its applications in Applied Science” Organized by Department of Statistics, Guahati University in collaboration with Indian Statistical Institute (ISI), December 30, 2012, January 2, 2013.
Paper Presented: Bayesian Estimation of Extended Exponential Parameters Using various Approximation Techniques.

B. National Presentation

9. National Conference on Recent Trend in Statistics, organized by Department of Statistics, St. Anthony College, Shillong Meghalaya on November 7, 2023.

Paper Presented: Bayesian estimation of type-I hybrid censored xgamma lifetime distribution

10. VI Rajasthan Science Congress on Innovation in Science and Technology for Sustainable Development, Organized by Central University of Rajasthan, Kishangarh, Ajmer, Rajasthan, October 13-15, 2018.

Paper Presented: A new heavy tailed distribution and its application

11. National Conference on Statistics for Humanities and Social Sciences: Recent Trends and Advancement, organized by Rajasthan Statistical Association & Department of lifelong learning University of Rajasthan, Jaipur, January 15-16, 2018.

Paper Presented: Bayesian Estimation of $R=P[Y<X]$ Using Hybrid Type-II Censored Data.

12. 20th Annual Conference of Vijnana Parishad of India on Mathematical Sciences and Scientific Computing for Industrial Development, Organized by Department of Mathematics and Statistics, School of Basic Sciences, Manipal University Jaipur Rajasthan, Jaipur, Nov. 24-26, 2017.

Paper Presented: Bayesian Estimation of $R=P[Y<X]$ Using Hybrid Type-II Censored Data.

13. National Seminar on Use of Statistics in industry and Corporate World, Organized by Department of Statistics, Banaras Hindu University, Varanasi, October, 25-26, 2015.

Paper Presented: Transmuted Inverted Exponential Distribution: Different Method of Estimation

14. "Second Mizoram Mathematics Congress" Organized by Department of Mathematics Mizoram University and Pachhunga University college, August 13-14th, 2015.

Paper Presented: Application of Approximation techniques in Statistical Estimation

15. "XXXVI Annul Conference of the Indian Association for the Study of Population (IASP)" Organized by University of Kerala, Kariavattom, November 7-9, 2014 Thiruvananthapuram.

Paper Presented: Analysis of Age at Marriage Data Using Bayes Approach: Modelling and Estimation

16. National Conference on "Recent Advances in Mathematics and Statistics (RASMASA-2014)" Organized by Department of Statistics, Kumauni University Nanital, Oct. 4-6, 2014.

Paper Presented: Reliability Estimation for Inverse Lomax Distribution Under Type-II Censored Data Using Markov Chain Monte Carlo Method.

17. National Conference on "Role of Mathematical Sciences in Science and Technology (ISMAMS-2014)" Organized by Department of Mathematics and Statistics, D. D. U. University Gorakhpur, Feb 21-22, 2014.

Paper Presented: Parameter Estimation in Two Parameter Marshall-Olkin exponential Distribution under Hybrid Type-I censoring Scheme.

18. National Conference on "Recent Advances in Statistics and Application" Organized by Department of Mathematics and Statistics, Pt. R. S. University Raipur, November 15-17, 2013.

Paper Presented: Reliability Estimation and Prediction in Extension of Exponential Distribution Using Informative and Non-informative priors.

19. National Conference on "Recent Trend in Mathematics and Statistics (CORTMAS 2013)" Organized by Department of Mathematics and Statistics, D. D. U. University Gorakhpur, July 27-28, 2013.

Paper Presented: Reliability Estimation In Extension of Exponential Distribution for Progressive Type II Censored Data with Binomial Removals Using Different Loss Functions.

20. Conference on “Applied Statistics & Its Applications (CASA 2013)” organized by Department of Applied Statistics, Babasaheb Bhimrao Ambedkar University Lucknow, March 16-17, 2013.
Paper Presented: Bayesian Model Selection and adaptive Bayes Estimators of the Parameters.

FDP/Seminar/Conference/ Workshop Attended

1. Attended and Presented Paper in International workshop on Reliability Theory and Survival Analysis, Organized by Manipal Institute of Technology, Manipal, Mangalore, from 20-23 December 2023.
2. Attended Instructional School for teachers on Advanced Topics in Statistical Learning at Indian Statistical Institute, Kolkata, July 11-23, 2022.
3. Attended One-week FPD on Recent Trends Data Analysis in SPSS Software, organized by REST Society for Research International, Krishnagiri, Tamil Nadu India, January 10-15, 2022.
4. Attended the online Faculty Development Program on “Analysis of Data by MS-Excel for Research” September 06-11, 2021, Organized by REST Society for Research International (RSRI) Krishnagiri, Tamil-Nadu, India.
5. Attended the online Faculty Development Program on “Research Methodology and Scientific Tools” September 9-13, 2020 at Government College Satnali, Mahendergarh (Haryana), India in collaboration with the Advance Research Educational Society.
6. Attended an Online Faculty Development Programme on the “Data Science using R and Geo Gebra” organized by the PG & Research Department of Mathematics (Under DBT Star College Scheme), Jamal Mohamed College (Autonomous), Tiruchirappalli in association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India from 11.05.2020 to 14.05.2020.
7. Attended National level One Week Online Faculty Development Program on “R Programming Language” with included a demonstration cum hands on exposure, organized in association with Spoken Tutorial Project, IIT Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India, remotely by Department of Mechanical Engineering from 28th April to 4th May 2020.
8. Attended YOGA training program, Organized by Teaching Learning Centre, Central University of Rajasthan, 2018.
9. 4th Workshop on Official Statistics in North Eastern States, organized by ISI Kolkata and Department of Statistics, PUC, Mizoram University, Aizawl, Mizoram-796001, November, 7-13, 2016.
10. Workshop on “Data Mining and Business Analytics”, organized by ISI Bangalore and Department of Statistics, PUC, Mizoram University, Aizawl, Mizoram-796001, during 2-4 March, 2015.
11. State Level Workshop on “C++ Language and Numerical Methods” organized by Department of Physics and mathematics, PUC, Mizoram University, Aizawl, Mizoram-796001, during 16-20 February, 2015.
12. “Winter School on Bayesian Analysis”, organized by the applied Statistics Unit ISI Kolkata during, 24-28 February, 2014.

13. "A Short course on Introduction to Bayesian Statistical Modeling", organized by DST- Centre for interdisciplinary Mathematical sciences, Banaras Hindu University Varansi-221005, January 27-31, 2014.
14. Workshop on "Probability and Fractional Calculus", organized by DST- Centre for interdisciplinary Mathematical sciences, Banaras Hindu University Varansi-221005, January 25-February 02, 2013.
15. ISBA Regional Meeting and International Workshop/Conference on "Bayesian Theory and Applications (IWCBT)" DST-CIMS & Department of Statistics, Banaras Hindu University, Varanasi, January 6-10, 2013.
16. One week "Latex Training Program" organized by DST-Centre for Interdisciplinary Mathematical Sciences (DST-CIMS), BHU, Varanasi, 19-24 March-2012.
17. National Seminar on "New Dimensions in Statistics: Concepts and Issues (NDSCI-2012)" (March 2-4, 2012) organized by Department of Statistics and DST-Centre for Interdisciplinary Mathematical Sciences (DST-CIMS), BHU, Varanasi.
18. National Conference on "Bayesian Statistics & Its Emerging Applications (BSEA)" (9-10 Dec, 2011) organized by DST-Centre for Interdisciplinary Mathematical Sciences (DST-CIMS), BHU, Varanasi.
19. National workshop on "Multivariate Analysis: Matrix Methods" (28th Nov 2011 to 3rd Dec 2011, one week) organized by DST-Centre for Interdisciplinary Mathematical Sciences (DST-CIMS), BHU, Varanasi.

Invited Lecture Delivered in Workshop/Conference

1. Delivered two invited lecture as resource person in Four Days Webinar on Research Methodology, Organized by Department of Mathematics, Lalit Narayan Mithila University from September 1st-4th, 2025.
2. Delivered an Invited Talk in National Conference on Statistical Methods and Applications in Interdisciplinary Areas Organized by Department of Statistics, 11-12 April 2025, University of Delhi, New Delhi, India.
3. Delivered an Invited Talk in International Conference on Advances of Interdisciplinary Statistics and Applications in AI & ML Organized by the Department of Statistics, NEHU, Shillong during 21-23 Feb. 2025.
4. Session Chaired in International Conference on Recent Developments in the Techniques of Bayesian Paradigm January 06-08, 2025, Organized by the Department of Statistics and DST CIMS, BHU Varanasi India.
5. Session Chaired in International Workshop on "Bayesian Frontiers: Unveiling the Future of Statistical Modeling and Inference" (January 03-05, 2025), Organized by the MMV, Department of Statistics and DST CIMS, BHU Varanasi India.
6. Contributory Talk in 2024 IMS International Conference on Statistics and Data Science (ICSDDS), Nice, France, December, 16-19, 2024 (International).
7. One-day training session on MS Excel for Official Use: Tips, Tricks and Best Practices for non-teaching staff is being scheduled by the Staff Development Cell (SDC), BHU on 24th April, 2025.

8. One-day training session on MS Office Competencies: Optimizing Basic Functionalities of MS Excel for non-teaching staff is being scheduled by the Staff Development Cell (SDC), BHU on 27th May 2024.
9. Delivered nine invited lecture as resource person in workshop on Advance MS Excel during November 01-06, 2023, organized by Department of Economics Training and Placement Cell, Banaras Hindu University, Varanasi-221005.
Topic of Talk: MS Excel from Basic to Advance.
10. Delivered two invited lecture in Advanced Statistical Data Analysis Using R-Programming during September 25-29, 2023 at Patna Women's College, Patan Bihar.
Topic of Talk: Descriptive Statistics and Statistical Test Using R software.
11. Delivered two invited lecture in Training Program on Statistical Analysis using SPSS Software for lecturer working in unit of SCERT and in institute of dielectrics education and training" during September 11-14, 2023 at Bureau of Psychology, Prayagraj, U.P.
Topic of Talk: Non-Parametric Test: SPSS Output and Interpretation with Examples.
12. Delivered two invited lecture in Training Program on Statistical Analysis using SPSS Software for lecturer working in unit of SCERT and in institute of dielectrics education and training" during September 4-9, 2023 at Bureau of Psychology, Prayagraj, U.P.
Topic of Talk: Non-Parametric Test: SPSS Output and Interpretation with Examples.
13. Delivered two invited lecture in Workshop on Statistical Analysis using MS Excel on 22 June 2023, 2023. organized by Department of Statistics, Mahatma Gandhi Kashi Vidyapith, Varanasi-221005.
Topic of Talk: Statistical Analysis using MS Excel.
14. Delivered two invited lecture in International Workshop Cum-Training Program on Application of Training Program on Quantitative Techniques in Geographical Research from basic to Advanced during 11-17 April, 2023. organized by Department of Geography, Banaras Hindu University, Varanasi-221005.
Topic of Talk: Multivariate Analysis (PCA and Discriminant Analysis) using SPSS.
15. Delivered two invited lecture in International Workshop Cum-Training Program on Application of Training Program on Quantitative Techniques in Geographical Research from basic to Advanced during 11-17 April, 2023. organized by Department of Geography, Banaras Hindu University, Varanasi-221005.
Topic of Talk: Univariate and Bivariate Data Analysis using SPSS.
16. Invited Lecture entitled in the International Conference on Applications of Statistics, during 2-3 February, 2023, organized by the Department of Statistics, Pachhunga University College (PUC) campus, Mizoram University (MZU).
Topic of Talk: On Progressively Type-II Censored Weighted Xgamma Exponential Distribution: Inferences and Applications.
17. Delivered two invited lecture in Refresher Course in Statistical Methods in Data Analysis and Research (online), during 14.11.2022 to 26.11.2022, organized by UGC-Human Resource Development Centre (HRDC), University of Rajasthan, Jaipur.
Topic of Talk: Descriptive Statistics and Statistical Test Using R software.
18. Delivered two invited lecture in Training Program on Statistical Software " during November 14-26, 2022 at Bureau of Psychology, Prayagraj, U.P.
Topic of Talk: Introduction to R software and Descriptive Statistics.

19. Delivered three invited lecture in Six Days National Workshop on "Descriptive Data Analysis using SPSS & R Programming " during November 21-26, 2022 at Rajiv Gandhi South Campus, Banaras Hindu University, Mirzapur.
Topic of Talk: Descriptive Statistics, Statistical Test Using R.
20. Delivered four invited lecture in two Days Workshop on Bio-statistical Hands on Training Using SPSS, during October 10-11, 2022 at Department of Community Medicine, Mahatma Gandhi Medical College and Hospital, Jaipur.
Topic of Talk: Bio-Statistical tools and Statistical test using SPSS software.
21. Delivered two invited lecture in Five Days Online Workshop on Descriptive Data Analysis using MS-Excel and SPSS during June 06-10, 2022 at Rajiv Gandhi South Campus, Banaras Hindu University, Barkachha Campus Mirzapur.
Topic of Talk: Basics of MS Excel, inbuilt functions and Statistical Test.
22. Delivered one invited lecture in One Week Online Training on Basics of R and Python Programming " during March 11-15, 2022 at the Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi.
Topic of Talk: Statistical inbuilt function Using R and Iterative techniques.
23. Delivered two invited lecture in Refresher Course in Statistical Computing in Social Science (Multidisciplinary) (online), during 1-16, February, 2022, organized by UGC-Human Resource Development Centre (HRDC), University of Rajasthan, Jaipur.
Topic of Talk: Uni-variate and Bi-variate Numerical Descriptors Using R software.
24. Delivered two invited lecture in One Week Online Training Program on Data Analysis Using MS Excel and SPSS Software, 27-31, January 2022, at the Department of Statistics, Banaras Hindu University, Varanasi-221005.
Topic of Talk: Basics of MS Excel, Univariate and Bivariate Descriptive Statistics Using MS Excel.
25. Delivered two invited lecture in Online Training Program on Application of Bio-Statistics in Health Research, during 24-25 January 2022 Organized by ICMR-NIREH Bhopal.
Topic of Talk: Descriptive Statistics, Correlation and Regression.
26. Delivered one invited lecture in Webinar on Mathematics and Its Applications during December, 02-03, 2021, Jointly Organized by Alliance School of Applied Mathematics Bangalore and Mizoram Mathematical Society, Mizoram.
Topic of Talk: Development of lifetime distributions and their applications.
27. Delivered three invited lecture in One Week Online Training on R Programming and LaTeX typesetting, 05-10, January 2021 at the Department of Statistics, Banaras Hindu University, Varanasi-221005.
Topic of Talk: Descriptive Statistics Using R, Parametric, Non-Parametric Test Using R and Document Preparation Using R-SWEAVE.
28. Delivered lecture in three days International Webinar on "General Mathematical tools in research: theory and applications" during 15-17 June, 2020, organized by Department of Mathematics (FoE&CS) Tirthankar Mahavir University, Mooradabad, India.
Topic of Talk: Role of Statistical tool in data analysis.
29. Delivered three invited lecture in National workshop on Statistical Computing Using R, October 11-16, 2020, organized by the Department of Science and Technology, Center for Interdisciplinary Mathematical Sciences, Banaras Hindu University, Varanasi-221005.

Topic of Talk: Descriptive Statistics Using R, Parametric and Non-Parametric Test Using R.

30. Delivered one invited lecture on the occasion of National Statistics Day 29th June, 2018 at NSSO Ajmer.

Topic of Talk: Quality of Data and Quality of Result.

31. Delivered one departmental seminar on January 10, 2018, in the Department of Statistics, Central University of Rajasthan, Ajmer, Rajasthan-305815.

Topic of Talk: Non Monotone Failure Rate Model: Statistical Properties and Estimations.

32. Delivered three invited lectures, 4th Workshop on Official Statistics in North Eastern States, organized by ISI Kolkata and Department of Statistics, PUC, Mizoram University, Aizawl, Mizoram-796001, November, 7-13, 2016.

Topic of Talk: Univariate and Bivariate Descriptive Statistics.

33. Delivered three invited lectures, National Workshop on "Statistical Analysis Using Excel Software", 11-13, July, 2016, Department of Statistics, PUC, MZU, Aizawl.

Topic of Talk: Basics of MS Excel, Statistical Function in MS Excel and Statistical Analysis Using MS Excel.

Workshop/Conference Organized

1. International workshop on Reliability Theory and Survival Analysis, Organized by Department of Statistics and DST-CIMS, from 21-23, December 2024.
2. As a Convener, organize One Week Online Training Program on Data Analysis Using MS Excel and SPSS Software, 27-31, January 2022, at the Department of Statistics, Banaras Hindu University, Varanasi-221005.
3. As a Joint Secretary, organize One Week Online Training on R Programming and LaTeX typesetting, 05-10, January 2021 at the Department of Statistics, Banaras Hindu University, Varanasi-221005.
4. As a organizing member, organize 4th Workshop on Official Statistics in North Eastern States, organized by ISI Kolkata and Department of Statistics, PUC, Mizoram University, Aizawl, Mizoram-796001, November, 7-13, 2016.
5. As a Convener, organize National Workshop on "Statistical Analysis Using Excel Software", 11-13, July, 2016, at the Department of Statistics, PUC, Mizoram University, Aizawl.
6. As a organizing member, organize A three days' workshop on, "Data Mining and Business Analytics", 2-4, March, 2015, in Department of Statistics, PUC, Mizoram University, India.

Thesis/ Project/ Dissertation Supervision

- PhD Awarded: 02
- PhD Ongoing: 03
- Also engaged in project supervision of B.Sc. and M.Sc. Students.

Administrative Contribution

1. Member in Cultural committee, Institute Day Celebration 2023.
2. Member of Seating, Stage and Decoration Committee, 103rd Convocation of BHU.
3. Member of UG and PG Admission Committee, 2022-23, BHU Varanasi.
4. Member of Prize and Medal committee, Banaras Hindu University 2022.
5. Member of Board of Studies (BOS) in Statistics, Central University of Rajasthan.
6. was Member of Departmental Ph. D. admission committee at CURAJ.
7. was Departmental Laboratory In charge at CURAJ.
8. was Departmental examination in charge at CURAJ.
9. was Departmental Ph. D. Course Coordinator.
10. was Monitoring the online course as instructor (SWAYAM): Computing with R (Session: 2018-19) at CURAJ.
11. was Member of departmental research Committee at CURAJ.
12. was Member in Student Grievance Redressal Committee (SGRC) for the School of Mathematics, Statistics & Computational Sciences for session 2019-20 at CURAJ.
13. was Member in PWD committee, CURAJ.
14. Had worked as a Member of Board of under Graduate study (BUGS) in Statistics, Mizoram University Aizawl-796001.
15. Had worked as a Member of Board of under Graduate study (BUGS) in Economics, Mizoram University Aizawl-796001 from March 2017 to March 2019.
16. Had worked as a member of Archive, Documentation and Publicity cell in Pachhunga University College, Mizoram University, Aizawl-796001.
17. Had worked as in-charge of IQAC in Dept. of Statistics, PUC, Mizoram University, Aizawl.
18. Member of student council in Banaras Hindu University during 2010-2011.
19. Member of student council in Banaras Hindu University during 2013-2014.

Membership of Profession Bodies

- Life member of Indian Society for Probability and Statistics.
- Life member of Indian Mathematical Society.
- Life member of Indian Association for the Study of Population.
- Life member of Indian Society of Medical Statistics.
- Life member of International Indian Statistical Association.
- Member of Indian Bayesian Society.
- Member of Mizoram Mathematical Society.

Research Collaborators

- Dr. Subradev Sen, Alliance University Bengaluru, Bengaluru India.
- Dr. Mahendra Saha, Delhi University, Delhi, India.
- Dr. Harsh Tripathi, Symbiosis International University, Pune India.
- Dr. Sumit Kumar, University of Delhi, India.
- Prof. S. S. Maiti, Vishvabharti University, Santiniketan, Wesbengal.
- Prof. Sanku Dey, St. Anthony's College, Shillong Meghalay, India.
- Dr. Haitham M. Yousof, Benha University, Benha, Egypt.
- Dr. Hafida Goual, University of Badji Mokhtar, Annaba, Algeria.
- Prof. H. S. Bakouch, Faculty of Science, Tanta University, Tanta, Egypt.
- Prof. Christophe Chesneau, LMNO, University of Caen, Caen, France.
- Prof. Sajid Ali, Quaid-i-Azam University, Islamabad, 45320, Pakistan.
- Prof. S. Nadharajah, University of Manchester, U.K.
- Dr. Atanu Bhattacharjee, University of Dundee, U.K.
- Prof. M. J. Anish, Indian Statistical Institute, Kolkata.

Skills

Languages	Strong reading, writing and speaking competencies for English, Hindi.
Programming Languages	R, FORTRAN, C, MS office, MS Excel, SPSS, CPro $\LaTeX$
Coding	R, Python, $\LaTeX$
Misc.	Academic research, teaching, training, $\LaTeX$ typesetting and publishing.

Declaration

I hereby declare that the above given information are true and correct to the best of my knowledge and belief.

Date: 14 Sept. 2025

Abhiamnyu Singh Yadav