RAMANUJAN COLLEGE
University of Delhi
NAAC Grade A++ with CGPA 3.71

Title	Dr.	First Name	Renu	Last Name	Garg	Photograph

Designation	Assistant Professor
Address	Department of Statistics, Ramanujan College, University of Delhi, Delhi -110007
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Web-Page	

Educational Qualifications

Degree	Institution	Year
Ph.D.	Department of Statistics, M.D. University, Rohtak	2017
M.Phil.	Department of Statistics, C.C.S. University, Meerut	2013
B.Ed.	R.D.P.D. Girls PG College, C.C.S. University, Meerut	2011
M.Sc.	Department of Statistics, C.C.S. University, Meerut	2010
B.Sc.	D.P.B.S. Degree College, C.C.S. University, Meerut	2008

Career Profile

- Assistant Professor (Permanent). Department of Statistics, Ramanujan College, University of Delhi, Delhi-110019 from June 26, 2023, to till date.
- Assistant Professor (Ad-hoc). Department of Statistics, Kirori Mal College, University of Delhi, Delhi-110007 from September 13, 2021, to October 25, 2022.
- Assistant Professor (Ad-hoc). Department of Statistics, University of Delhi, Delhi-110007 from January 01, 2018, to September 12, 2021.

Administrative Assignments

- Coordinator of the 98th Annual Report for the for Academic Session 2020-2021 in the Department of Statistics, DU.
- Deputy Coordinator of Research Activity Cell for Academic Session 2020-2021 in the Department of Statistics, DU.
- Member of the PG Admission Committee for the academic sessions 2018-2019, 2019-2020, and 2020-2021 in the Department of Statistics, DU.
- Member of the Internal Quality Assurance Cell Committee for the academic sessions 2018-2019, 2019-2020, 2020-2021, and 2021-2022 in the Department of Statistics, DU.

- Member of the Syllabus Revision Committee for B.Sc. (Hons.), B.A. (Programme) Statistics and B.Sc. (Programme) Mathematical Sciences under CBCS for the Academic Session 2018-2019 in the Department of Statistics, DU.
- Member of the Syllabus Revision Committee for M.A./M.Sc. Statistics under CBCS Academic Session 2018-2019in the Department of Statistics, DU.
- Member of the Internal Assessment Test Committee for the academic session 2018-2019 in the Department of Statistics, DU
- Member of the Medical Committee, Anti-Ragging Committee, Internal Audit Committee, Discipline Committee, Internal Complaint Committee, and Student Feedback Committee in the Department of Statistics, DU.

Areas of Interest / Specialization

- Reliability and Life Testing
- Statistical Inference
- Bayesian Estimation
- Censored Data

Subjects/papers Taught

UG Level	**PG Level**
• Theory of Probability • Theory of Probability Distributions • Mathematical Analysis • Descriptive Statistics • Applied Statistics • Time Series Analysis • Sampling Distributions	• Statistical Methodology • Statistical Inference • Design of Experiments • Problem solving using R software • Problem solving using SPSS

Research Guidance

Publications Profile

Google Scholar: https://scholar.google.co.in/citations?user=TkDsba8AAAAJ&hl

Scopus: https://www.scopus.com/authid/detail.uri?authorId=56342502200

*As Corresponding Author

a. Research Papers

1. Shubham Saini, Jyoti Patel, and **Renu Garg⁎ (2024).** Statistical Inference on Multicomponent Stress-Strength Reliability with Non-Identical Component Strengths using Progressively Censored Data from Kumaraswamy Distribution. *Soft Computing* **(Springer),** pp. ISSN: 1433-7479. **Impact Factor: 4.10.**
2. Shubham Saini, and **Renu Garg* (2022)**. Non-Bayesian and Bayesian estimation of Stress-strength reliability from Topp-Leone distribution under progressive first-failure censoring. *International Journal of Modelling and Simulation* **(Taylor & Francis)**, pp. 1-15. ISSN: 1925-7082. **Impact Factor: 3.10.**
3. Randa Alharbi, **Renu Garg**, Indrajeet Kumar*, Anita Kumari and Ramya Aldallal **(2023).** On Estimation of P(Y<X) for Inverse Pareto Distribution based on Progressively First Failure Censored Data. *Plos One*, 18(11). ISSN: 1932-6203. **Impact Factor: 3.70.**

4. Shubham Saini, Sachin Tomer, and **Renu Garg*** (**2023**). Inference of Multicomponent Stress-Strength Reliability following Topp-Leone Distribution using Progressively Censored Data. *Journal of Applied Statistics* **(Taylor & Francis)**, 50(7), pp. 1538-1567. ISSN: 0266-4763. **Impact Factor: 1.10.**

   https://doi.org/10.1080/02286203.2022.2148878. **Impact Factor: 2.10.**

5. Anita Kumari, Shrawan Kumar*, **Renu Garg (2022)**. Reliability Estimation in Lindley Populations Using Hybrid Censored Data. *International Journal of Statistics and Reliability Engineering*, 9(3), pp. 437-449.

6. Shubham Saini, and **Renu Garg* (2022).** Reliability Inference for Multicomponent Stress-Strength Model for Kumaraswamy-G Family of Distributions based on Progressively First-Failure Censored Samples. *Computational Statistics* **(Springer)**, 37 (4), pp. 1795-1837. ISSN: 0943-4062. **Impact Factor: 1.30.**

7. Shubham Saini, Sachin Tomer, and **Renu Garg*** (**2022**). On the Reliability Estimation of Multicomponent Stress-Strength Model for Burr XII Distribution using Progressively First-Failure Censored Samples. *Journal of Statistical Computation and Simulation* **(Taylor & Francis)**, 92(4), pp. 667-704. ISSN: 0094-9655. **Impact Factor: 1.20.**

8. Ajit Chaturvedi, **Renu Garg,** and Shubham Saini* **(2022).** Estimation and Testing Procedures for the Reliability Characteristics of Kumaraswamy-G Distributions based on the Progressively First Failure Censored Sample. *OPSEARCH* **(Springer)**, 59, pp. 494–517. ISNN: 0975-0320. **Impact Factor: 1.60.**

9. **Renu Garg***, and Kapil Kumar. **(2021)**. On Estimation of P(Y<X) for Generalized Inverted Exponential Distribution based on Hybrid Censored Data. *Statistica*, 81(3), pp. 335-361. ISSN: 1973-2201.

10. Shubham Saini*, Ajit Chaturvedi, and **Renu Garg. (2021).** Estimation of Stress-Strength Reliability for Generalized Maxwell Failure Distribution under Progressive First Failure Censoring. *Journal of Statistical Computation and Simulation* **(Taylor & Francis)**, 91(7), pp. 1366-1393. ISNN: 0094-9655. **Impact Factor: 1.20.**

11. **Renu Garg*,** Madhulika Dube, and Hare Krishna. **(2020)**. Estimation of Parameters and Reliability Characteristics in Lindley Distribution using Randomly Censored Data. *Statistics, Optimization & Information Computing*, 8, pp. 80-97. ISNN: 2310-5070.

12. Hare Krishna, Madhulika Dube, and **Renu Garg*. (2019).** Estimation of Stress-Strength Reliability of Inverse Weibull Distribution under Progressive First Failure Censoring, *Austrian Journal of Statistics*, 48, pp. 14-37. ISNN: 1026-597X. **Impact Factor: 0.60.**

13. Kapil Kumar*, **Renu Garg,** and Hare Krishna **(2017)**. Nakagami Distribution as a Reliability Model under Progressive Censoring. *International Journal of System Assurance Engineering and Management* **(Springer)**. 8(1), pp. 109-122. ISSN: 0975-6809. **Impact Factor: 2.0.**

14. Hare Krishna, Madhulika Dube, and **Renu Garg*. (2017).** Estimation of P(Y < X) for Progressively First Failure Censored Generalized Inverted Exponential Distribution, *Journal of Statistical Computation and Simulation* **(Taylor & Francis)**, 87(11), pp. 2274-2289. ISNN: 0094-9655. **Impact Factor: 1.20.**

15. **Renu Garg**, Madhulika Dube, Kapil Kumar*, and Hare Krishna. **(2016)**. On Randomly Censored Generalized Inverted Exponential Distribution. *American Journal of Mathematical and Management Sciences* **(Taylor & Francis)**. 35(4), pp. 361-379. ISSN: 0196-6324.

16. Madhulika Dube, Hare Krishna, and **Renu Garg*. (2016).** Generalized Inverted Exponential Distribution under Progressive First Failure Censoring. *Journal of Statistical Computation and Simulation* **(Taylor & Francis)**, 86(6), pp. 1095-1114. ISNN: 0094-9655. **Impact Factor: 1.20.**
17. Madhulika Dube, **Renu Garg*** and Hare Krishna. **(2016).** On Progressively First Failure Censored Lindley Distribution. *Computational Statistics* **(Springer)**, 31(1), pp. 139-163. ISSN: 0943-4062. **Impact Factor: 1.30.**
18. Kapil Kumar*, Hare Krishna and **Renu Garg. (2015)**. Estimation of P(Y<X) in Lindley Distribution using Progressively First Failure Censoring. *International Journal of System Assurance Engineering and Management* **(Springer)**. 6(3), pp. 330-341. ISSN: 0975-6809. **Impact Factor: 2.0.**
19. Kapil Kumar K. and **Renu Garg*. (2014)**. Estimation of the Parameters of Randomly Censored Generalized Inverted Rayleigh Distribution. *International Journal of Agricultural and Statistical Sciences*. 10(1), pp. 147-155. ISSN: 0973-1903. **Impact Factor: 0.10.**

Conferences/Workshops/Trainings Attended

a. International Conference Presentations: 08

- Attended and presented a paper, "Estimation in Inverse Pareto Distribution under Unified Hybrid Censoring". **International Conference** on "Statistics and optimization" organized by the Department of Statistics and Operational Research, Aligarh Muslim University, Aligarh during 28-29, October 2023.
- Attended and presented a paper, "On the Reliability Estimation of Multicomponent Stress-Strength Model for Burr XII Distribution using Progressively First-Failure Censored Samples". **International Conference** on "Statistics and Data Science: Theory and Practice for Progress and Prosperity (ICSDS-2021)" organized by the Department of Statistics, Osmania University, Hyderabad during 11-13, March 2022.
- Attended and presented a paper, "Reliability Estimation in Maxwell Lifetime model using Progressively First Failure Censored Data", **International Conference** on Frontiers in Industrial and Applied Mathematics organized by the Department of Mathematics, Sant Longowal Institute of Engineering & Technology Longowal, Punjab during 21-22, December 2021.
- Attended and presented a paper "Stress-Strength Reliability Estimation of Generalized Inverted Exponential Distribution Using Hybrid Censored Data", **International Conference** on "Recent Advances in Computational Mathematics & Engineering" organized by B K Birla Institute of Engineering & Technology, Pilani, Rajasthan during 19-21 March 2021.
- Attended and presented a paper, "Estimation of Stress-Strength Reliability in Inverse Weibull Distribution using Progressively First Failure Censored Data", **International Conference** on Emerging Innovations in Statistics & Operations Research organized by M.D. University, Rohtak during 27-30 December 2018.
- Attended and presented a paper titled, "Reliability Estimation in Nakagami Distribution using Progressively Censored Data", at the **International Conference** on Emerging Trends in Inventory, Supply Chain & Reliability Modeling organized by University of Delhi, Delhi during 21-23 December 2018.
- Attended and presented a paper titled, "On Progressively First Failure Censored Generalized Inverted Exponential Distribution", VIII **International Symposium** on Statistics and Optimization organized by Aligarh Muslim University, Aligarh, during 17-19 December 2016.

	• Attended and presented a paper titled, "Analyzing $\delta=P(Y<X)$ in Generalized Inverted Exponential Distribution with Progressively First Failure Censored Data", at the **International Conference** on Quality, Reliability, Infocom Technology & Business Operations organized by University of Delhi, Delhi during 28-30 December 2015.
b.	**National Conference Presentations: 04**
	• Attended and presented a paper titled, "Reliability Estimation in Lindley Distribution using Progressively First Failure Censored Data" at the **National Conference** on Recent Advances in Data Science during December 15-17, 2023 at the VIT-AP University, Andhra Pradesh, India. • Attended and presented a paper titled, "Reliability Estimation in Lindley Distribution using Randomly Censored Data", at the **National Conference** on Recent Statistical Computing Techniques and their Applications during March 11-12, 2016 at Ramanujan College, University of Delhi, Delhi, India. • Attended and presented a paper titled, "Reliability Estimation in Lindley Distribution under Progressively First Failure Censoring Scheme", at the **National Conference** on Significance of Statistics as Interdisciplinary Science during February 18-20, 2016 at the University of Jammu, Jammu, India. • Attended and presented a paper titled, "Estimation of Parameters in Generalized Inverted Exponential Distribution with Randomly Censored Sample", at the **National Conference** on Statistical Inference, Sampling Techniques and Related Areas during February 18-19, 2014 at Aligarh Muslim University, Aligarh, India.
c.	**Workshops Attended: 05**
	• Attended a one-week online **National Workshop** on "Applications of Mathematical and Statistical Tools" Jointly organized by the Department of Mathematics, Department of Statistics and School of Education under the Scheme of Pandit Madan Mohan Malviya National Mission on Teachers and Teaching, Central University of Haryana, Mahendergarh, India during 20-24 March 2021. • Attended a **National Workshop** on "How to Write a Research Paper", during December 17-20, 2018 at the University of Delhi, Delhi, India. • Attended a **Faculty Development Programme** on "Actuarial Statistics", during December 27-28, 2017 at the Department of Statistics, University of Delhi, Delhi, India. • Attended a **National Workshop** on "Mathematical Modelling and Computational Techniques using Mathematica", during March 30-31, 2017 at Zakir Husain College, University of Delhi, New Delhi, India. • Attended a **National Workshop** on "Statistical Computing Using R", during September 13-14, 2013 at the University of Delhi, Delhi, India.
d.	**Trainings Attended:**
	• Attended a 20 days Certificate/Refresher Course on Srimad Bhagavad-Gita, Prabodha Evam Prasamgikata Conducted by the Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi from 23 December to 9 January 2023. • Attended a Two-Week Refresher Course on Statistics Conducted by the Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi from 30 November to 14 December 2023 and obtained an "A" grade. • Attended a Four-Week Induction/Orientation Programme conducted by the Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi from 21 August to 19 September 2023 and obtained an "A+" grade.

	• Attended a Two-Week Refresher Course on Research Methodology Conducted by the Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi from 23 October to 06 November 2021 and obtained an "A+" grade. • Attended a Four-Week Induction/Orientation Programme conducted by the Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi from 19 July to 17 August 2021 and obtained an "A+" grade.
Invited Lectures/Resource Persons	
Research Projects (Major Grants/Research Collaboration)	
Awards and Distinctions	
• Senior Research Fellowship (SRF) by Council of Scientific & Industrial Research (CSIR) from April 17, 2017 to September 22, 2017. • First position in M.Phil. (Statistics) in Ch. Charan Singh University, Meerut and received Vice Chancellor and Dr. Prem Chand Kansal Gold Medals. • First position in M.Sc. (Statistics) in Ch. Charan Singh University, Meerut and received Vice Chancellor Gold Medal.	
Association with Professional Bodies	
• Life Member of Indian Society for Probability and Statistics. • Life Member of International Indian Statistical Association. • Life Member of Association of Inventory Academicians and Practitioners.	
Other activities	
Research Papers Reviewed for the following Journals (As per WoS): • Annals of Data Sciences (Springer) • Cogent Mathematics • Communications in Mathematics and Statistics (Springer) • IEEE Access • International Journal of Systems Assurance Engineering and Management (Springer) • Journal of Applied Statistics (Taylor & Francis) • Journal of Mathematics • Journal of Statistical Computation and Simulation (Taylor & Francis) • Journal of Testing and Evaluation • Quality and Reliability Engineering International (Wiley) • Remote Sensing Letters (Taylor & Francis).	

(Dr. Renu Garg)