

# Curriculum Vitae'

(As on December 18, 2020)

## Kapil Kumar

Assistant Professor,  
Department of Statistics, New Academic Block I,  
Central University of Haryana, Mahendergarh-123031  
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### Educational Qualifications

- **Ph.D. (Statistics).** Department of Statistics, Ch. Charan Singh University, Meerut in 2011.  
**Thesis Title:** Reliability Inferences with Censored Sample Information.  
**Thesis Supervisor:** Professor Hare Krishna.
- **M.Phil. (Statistics).** Department of Statistics, Ch. Charan Singh University, Meerut in 2008.
- **NET (Mathematical Sciences).** Joint CSIR-UGC in June 2007.
- **M.Sc. (Statistics).** Department of Statistics, Ch. Charan Singh University, Meerut in 2006.
- **B.Sc. (Physics, Mathematics & Statistics).** Meerut College Meerut, Ch. Charan Singh University, Meerut in 2004.

### Career Profile

- **Assistant Professor.** Department of Statistics, Central University of Haryana, Mahendergarh-123031. June 10, 2016 to till date.
- **Assistant Professor (Ad-hoc).** Department of Statistics, University of Delhi, Delhi-110007. September 11, 2012 to May 20, 2016.

### Administrative Assignments

- Member, School Board of School of Physical and Mathematical Sciences, CUH.
- Member, Board of Studies, Department of Statistics, CUH.
- Member, Departmental Research Committee, Department of Statistics, CUH.
- Member, Admission Committee, Department of Statistics, CUH
- Introduced new/modified syllabus for Ph.D. course work, Department of Statistics, CUH.
- Introduced new/modified syllabus at PG level, Department of Statistics, CUH.
- Faculty Coordinator, Credence - The Placement Cell of the Department of Statistics, University of Delhi for academic sessions 2013-2016.
- Member, Purchase Committee, Department of Statistics, University of Delhi for academic sessions 2013-2016.

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| <ul style="list-style-type: none"> <li>• Member, Syllabus Revision Committee for B.Sc. (H) Statistics under Choice Based Credit System (CBCS), Department of Statistics, University of Delhi, for academic session 2014-2015.</li> <li>• Member, Syllabus Revision Committee for B.Sc. (H) Statistics under Four Year Undergraduate Programme (FYUP), Department of Statistics, University of Delhi, for academic session 2012-2013.</li> </ul>  |
| <p><b>Area of Interest/Specialization</b></p>  |
| <ul style="list-style-type: none"> <li>• Reliability Inferences; Reliability and Life Testing; Survival Analysis; Bayesian Inference.</li> </ul>   |
| <p><b>Subjects Taught</b></p>  |
| <p><b>Ph.D. Level:</b> Reliability and Life Testing.</p> <p><b>Postgraduate Level:</b> Linear Models and Regression Analysis; Survival Analysis; Sampling Techniques; Econometrics, Bayesian Inference; Statistical Methodology; Statistical Computing using R, Statistical Inference.</p>   |
| <p><b>Research Guidance</b></p>  |
| <p><b>Ph.D. Students:</b> 02 (In Progress)</p> <p><b>M.Sc. Students Dissertation:</b> 15</p>   |
| <p><b>Research Papers Published</b></p>  |
| <p><b>Google Scholar Profile:</b> <a href="https://bit.ly/3mF2Bz7">https://bit.ly/3mF2Bz7</a></p> <p><b>Research Gate Profile:</b> <a href="https://bit.ly/3hV8nsL">https://bit.ly/3hV8nsL</a></p>   |
| <ul style="list-style-type: none"> <li>• <b>Kapil Kumar*</b> and Indrajeet Kumar (2020). Parameter Estimation for Inverse Pareto Distribution with Randomly Censored Life Time Data. International Journal of Agricultural and Statistical Sciences. 16(1), pp. 419-430. ISSN: 0973-1903.</li> <li>• <b>Kapil Kumar*</b> and Indrajeet Kumar (2019). Estimation in Inverse Weibull Distribution based on Randomly Censored Data. Statistica 79(1), pp.47-74. ISSN: 1973-2201.</li> <li>• <b>Kapil Kumar*</b> (2018). Classical and Bayesian Estimation in Log-Logistic Distribution under Random Censoring. International Journal of System Assurance Engineering and Management. 9(2), pp. 440-451. ISSN: 0975-6809. (Springer).</li> <li>• Ajit Chaturvedi, Narendra Kumar and <b>Kapil Kumar*</b> (2018). Statistical Inference for the Reliability Functions of a Family of Lifetime Distributions based on Progressive Type II Right Censoring. Statistica. 78(1), pp. 81-101. ISSN: 1973-2201.</li> <li>• <b>Kapil Kumar*</b>, Renu Garg and Hare Krishna (2017). Nakagami Distribution as a Reliability Model under Progressive Censoring. International Journal of System Assurance Engineering and Management. 8(1), pp. 109-122. ISSN: 0975-6809. (Springer).</li> <li>• Renu Garg, Madhulika Dube, <b>Kapil Kumar*</b> and Hare Krishna (2016). On Randomly Censored Generalized Inverted Exponential Distribution. American Journal of Mathematical and Management Sciences. 35(4), pp. 361-379. ISSN: 0196-6324. (Taylor &amp; Francis).</li> </ul> |

- Hare Krishna, Vivekanand and **Kapil Kumar\*** (2015). Estimation in Maxwell Distribution with Randomly Censored Data. Journal of Statistical Computation and Simulation. 85(17), pp. 3560-3578. ISSN: 0094-9655. **Impact Factor: 0.918. (Taylor & Francis).**
- **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. 6(3), pp. 330-341. ISSN: 0975-6809. **(Springer).**
- **Kapil Kumar** 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.
- Hare Krishna\* and **Kapil Kumar** (2013). Reliability Estimation in Generalized Inverted Exponential Distribution with Progressively Type II Censored Sample. Journal of Statistical Computation and Simulation. 83(6), pp. 1007-1019. ISSN: 0094-9655. **Impact Factor: 0.918. (Taylor & Francis).**
- Hare Krishna\* and **Kapil Kumar** (2011). Reliability Estimation in Lindley Distribution with Progressively Type II Right Censored Sample. Mathematics and Computers in Simulation. 82(2), pp. 281-294. ISSN: 0378-4754. **Impact Factor: 1.476. (Elsevier Science Publishers).**
- Hare Krishna\* and **Kapil Kumar** (2011). Reliability Estimation in Generalized Gamma Distribution with Progressively Censored Data. International Journal of Agricultural and Statistical Sciences. 7(1), pp. 15-29. ISSN: 0973-1903.

\* **Corresponding Author**

### **Books Published**

- Krishna H. and Kumar K. (2016). Statistical Methods-II, 3<sup>rd</sup> Edition. Shree Sai Prakashan, India. ISBN: 9789380965673.
- Krishna H. and Kumar K. (2011). Business Statistics. Shree Sai Prakashan, India. ISBN: 9789380965338.
- Krishna H., Joshi P.K. and Kumar K. (2009). Mathematics and Statistics for Managers. Shree Sai Prakashan, India. ISBN: 9789380273235.

### **Invited Lectures/Talk**

- Chaired a session in the National webinar on the topic, “Living with Covid-19: Holistic Sustainable Solutions” on June 07, 2020 organized by Nari Shiksha Niketan P.G. College, Lucknow.
- Delivered an invited lecture on the topic, “On Bayesian Analysis of the Randomly Censored Log-Logistic Distribution”, in 24<sup>th</sup> International Conference of International Academy of Physical Sciences on Innovation in Physical Sciences during August 09-11, 2019 at C.C.S. University, Meerut - 250004. Also, Chaired a Session.
- Delivered a series of lectures on the topic, “Data Analysis using R”, in a One Day Workshop, Manipal University Jaipur – 303007 on February 09, 2019.
- Delivered a series of lectures on the topic, “Data Science using R-Programming”, in a Two-Day Workshop, Hindu College, University of Delhi, Delhi - 110007 during November 2-3, 2018.

- Delivered a series of lectures on the topic, “Statistical Techniques using R”, in Faculty Induction Training Programme under PMMMNMTT, Central University of Haryana, Mahendergarh - 123031 on June 22 and 29, 2018.

### Conferences/Workshops Organized

- Member, Organizing Committee, National Science Day 2020.
- Member, Organizing Committee, International Conference on Trends in Computational and Cognitive Engineering during November 28-30, 2019, organized by School of Engineering & Technology and Department of Mathematics, Central University of Haryana, Mahendergarh (Sponsored by CSIR and DST-SERB).
- Coordinator, Two-Day Annual Interdisciplinary National Conference On “Transcending Borders and Disciplines: Culture, Literature and Society” during April 27-28, 2019 organized by IQAC, Central University of Haryana.
- Member, Organizing Committee, Two Week Interdisciplinary Faculty Development Programme on Data Analysis using Software Packages during December 12-24, 2018 organized by Department of Statistics & IQAC, Hindu College, University of Delhi, Delhi.
- Co-Convener, National Workshop on “Statistical Techniques and Data Analysis using R” during March 19-23, 2018 organized by Department of Statistics, Central University of Haryana, Mahendergarh.
- Member, Organizing Committee, Workshop on “Statistical Computing using R” during September 14-15, 2013 organized by Department of Statistics, University of Delhi.

### Conference Presentations

- Attended and presented a paper, “On Random Censoring: Classical and Bayesian Estimation Methods”, International Conference on Emerging Innovations in Statistics & Operations Research during December 27-30, 2018 at M.D. University, Rohtak, India.
- Attended and presented a paper, “Stress-Strength Reliability Estimation for Exponentiated Inverted Exponential Distribution using Hybrid Censored Samples”, International Conference on Emerging Trends in Inventory, Supply Chain & Reliability Modeling during December 21-23, 2018 at University of Delhi, Delhi, India.
- Attended and presented a paper, “Exponentiated Inverted Exponential Distribution under Random Censoring”, International Conference on Recent Trends of Computing in Mathematics, Statistics & Information Technologies during March 09-11, 2018 at Bundelkhand University, Jhansi, India.
- Attended and presented a paper, “Estimation in Log-logistic Distribution under Random Censoring”, National Conference on Statistics and Optimization in Techniques during February 11-13, 2017 at M.D. University, Rohtak, India.
- Attended and presented a paper, “On Randomly Censored Inverse Weibull Distribution”, VIII International Symposium on Statistics and Optimization in Conjunction with XXXVI- Annual Convention of Indian Society for Probability & Statistics (ISPS) during December 17-19, 2016 at Aligarh Muslim University, Aligarh, India.
- Attended and presented an Invited Paper, “Estimation in Stress-Strength Model with Lindley Distribution using Progressively First Failure Censored Data”, National Conference on Recent

Statistical Computing Techniques and their Applications during March 11-12, 2016 at Ramanujan College, University of Delhi, Delhi, India. Also, Chaired a Session.

- Attended and presented a paper, “Inverted Exponentiated Rayleigh Distribution under Random Censoring”, National Conference on Recent Trends and Developments in Statistics during February 21-23, 2015 at M.D. University, Rohtak, India.
- Attended and presented a paper, “Estimation of Parameters of Nakagami Distribution with Progressively Censored Samples”, National Conference on Statistical Inference, Sampling Techniques and Related Areas during February 18-19, 2014 at Aligarh Muslim University, Aligarh, India.
- Attended and presented a paper, “Inferences on Scale Parameter of Progressively Censored Generalized Gamma Distribution”, National Conference on Statistical Inference, Sampling Techniques and Related Areas during March 28-29, 2011 at Aligarh Muslim University, Aligarh, India.
- Attended and presented a paper, “Reliability Inferences in Lindley Distribution with Progressively Type II Right Censored Sample”, International Conference on New Trends in Life Testing, Bayesian Inference, Sampling Theory, Bio-Statistics, Bio-Informatics and Computer Applications during January 5-8, 2011 organized by Banaras Hindu University, Varanasi, India.
- Attended and presented a paper, “Reliability Inferences on Exponentiated Inverted Exponential Distribution under Progressive Type II Censoring”, International Conference on Development and Applications of Statistics in Emerging Areas of Science & Technology during December 8-10, 2010 at University of Jammu, Jammu, India.

#### **Workshops Attended**

- Attended a One Week Workshop on, “Professional Development and Capacity Building of Teaching of Higher Education Institutions” during March 11-18, 2019 at Central University of Haryana, Mahendergarh, India.
- Attended a Workshop on, “Reliability Theory and Survival Analysis” during November 04-06, 2015 at Panjab University, Chandigarh, India.
- Attended a Workshop on, “Information Literacy & Competency”, during January 17, 2013 organized by University of Delhi, Delhi, India.
- Attended a Workshop on, “Statistical Analysis for Engineers”, during July 2-6, 2012 organized by Indian Institute of Technology, Kanpur, India.
- Attended a Workshop on, “Reliability Theory and Survival Analysis”, during November 23-25, 2011 organized by Indian Statistical Institute, Kolkata, India.
- Attended a Workshop on, “Modern Tools in Applied Statistics” during December 4-7, 2010 at University of Jammu, Jammu, India.

#### **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.

- Life Member of the Indian Science Congress Association.

### Other Activities

- Participated in UGC Sponsored Refresher Course on 2<sup>nd</sup> Computational and Mathematical Sciences conducted by UGC-Human Resources Development Centre, Jamia Millia Islamia University, New Delhi during February 07, 2020 to February 20, 2020 and obtained “A” grade.
- Participated in four-week UGC Sponsored 110<sup>th</sup> Orientation Programme conducted by UGC-Human Resources Development Centre, Jawaharlal Nehru University, New Delhi from July 23, 2018 to August 17, 2018 and obtained “A” grade.

### Reviewer

Annals of Data Science (Springer).

Applied Mathematical Modelling (Elsevier Science Publishers).

Austrian Journal of Statistics.

Communications in Mathematics and Statistics (Springer).

Communications in Statistics - Theory and Methods (Taylor & Francis).

Electronic Journal of Applied Statistical Analysis.

International Journal of Systems Assurance Engineering and Management (Springer).

Iran Journal of Computer Science (Springer).

Journal of Applied Statistics (Taylor & Francis).

Journal of Modern Applied Statistical Methods.

Journal of Statistical Computation and Simulation (Taylor & Francis).

Life Cycle Reliability and Safety Engineering (Springer).

Malaysian Journal of Science.

Scientific African (Elsevier Science Publishers).

Statistical Methodology (Elsevier Science Publishers).

Statistics and Its Interface.

Thailand Statistician.

Date: December 18, 2020

Place: CUH, Mahendergarh

(Kapil Kumar)