

CV for Dr. Manoj Kumar

CONTACT INFORMATION Asst. Professor, Contact No. +9453123422, +91891637169
Department of Statistics , E-mail: manustats@cuh.ac.in
CUH, Haryana, Mahendergarh, India. E-mail: manustats@gmail.com

OBJECTIVE Seeking a challenging position in the field of Statistics, Quantitative techniques & High Quality Research where my skills and experience can improve organizational and our own achievements.

RESEARCH FOCUS With broad research interest in mathematical Statistics, I use variety of life time models in real life problem to analyze and address some basic questions in Statistical inference under classical and Bayesian paradigm. I develop variety of life time models and count models of the form stochastic variable. Beside, I work on survival analysis and to develop different types of censoring and to make algorithm. Particularly, I use the following computational techniques in my research work: Markov Chain Monte Carlo (MCMC), Gibbs Sampler, Acceptance-rejection method, EM algorithm and numerical methods.

EDUCATION

- **Ph.D.** Bayesian Inference and Survival Analysis, Department of Statistics, Banaras Hindu University, Varanasi-221005, U.P.
 - Thesis Topic: *Bayesian Estimation for the Parameters of Life Time Models*
 - Advisors: Prof. S. K. Singh and Prof. U. Singh
 - Ph.D. Course Work:
 - * Elements of distribution and inference (STPC-01) with **60%**
 - * Advanced statistical Techniques (STPC-02) with **60%**
 - * Reliability and Life Testing (STPR-02) with **72%**
 - * Bayesian inference (STPR-07) with Grade **62%**
 - * Preparation and presentation of the research plan proposal (STPR-09) with **92%**
 - * Ethics in Science(FSCP-01)with **satisfactory**
 - * Methods of research and good laboratory practices (FSCP-02) with **satisfactory**
 - * Science communication (FSCP-03) with **satisfactory**
 - * Research Methodology.
 - * Completed Ph.d. course work with **69.2%**
- **M.Phil** Statistics, C.C.S. University, Meerut, U.P., 2009 with 67%.

- **M.Sc** Statistics, C.C.S. University, Meerut, U.P., 2008 with 71.20%.
- **B.Sc** Statistics, K.M.C. College University of Delhi, Delhi, 2006 with 52.87%.
- **Intermediate**, B.I.E.C. S.S. College, Sasaram, Bihar, 2001 with 78%.
- **High School**, B.S.E.B. S.S. College, Sasaram, Bihar, 1999 with 70.2%.

RESEARCH INTERESTS

- Bayesian inference,
- Classical inference,
- Survival analysis,
- Stochastic Process,
- Progressive Censoring.

TEACHING EXPERIENCE

- June, 2016- Present. Assistant Professor, School of Physical and Mathematical Sciences, Department of Statistics, Central University of Haryana, Mahendergarh, India.
- January, 2015 - May, 2016. Assistant Professor, School of Mathematics, Statistics and Computational Sciences, Department of Statistics, Central University of Rajasthan, Kishangarh, India.
- I had taught the following two courses and taking three practical lab:
 (i) Statistical Inference-III (BST-601) (ii) Stochastic Model (MST-203)
 (i) Practicls based on (BST-203) (ii) Practicls based on (BST-303) (iii) Practicls based on (BST-304)
- September, 2014 - January, 2015. Assistant Professor, School of Basic Science and Research, Sharda University, Greater Noida, UP, India.
- July, 2013 - May, 2013. Engagement of Data Analyst, Center of Excellence (Scheme No. 4080) in Department of Medicine, Institute of Medical Sciences, Banaras Hindu University, Varanasi, UP, India.
- August, 2012 - November, 2012. Practical Lecturer of B.A.(App.Statistics) (temp.) in Banaras Hindu University, Varanasi, UP, India.
- August, 2012 - November, 2012. Practical Lecturer of B.Sc.(App.Statistics) (temp.) in Banaras Hindu University, Varanasi, UP, India.
- Currently I am teaching the following two courses:
 (i) Linear Algebra (MTM-201) (ii) Vector calculus and matrices (MT-201)

OTHER
EXPERIENCES

- October, 2016, Special Invitee member, Bord of Studies, School of Physical and Mathematical Sciences, Department of Statistics, Central University of Haryana, Mahendergarh, India.
- January, 2015 - Present. Warden Ship, B-07 Hostel, Central University of Rajasthan, Kishangarh, India.
- September, 2014 - January, 2015. Warden Ship, Vivekananda Hostel, Sharda University, Greater Noida, UP, India.

REFEREED
JOURNAL
PUBLICATIONS

1. **Kumar M.**, Singh S., Singh U. Reliability estimations for Poission-exponential model under Progressive type-II censoring data with Binomial removal, *STATISTICA*, LXXVI, n.1, 1-24, 2016.
2. **Kumar M.**, Singh S., Singh U. Extension of exponential count model and its application to emissions of beta particles from a nuclear reaction, *Isaac Scientific Publishing (ISP) Journals*, Accepted, 2016.
3. Singh S., Singh U., Sharma, V., **Kumar M.** Estimation and prediction for flexible Weibull distribution under progressive censoring, *Journal of Data Science Journal*, 13, 21-42, 2015.
4. Singh S., Singh U., **Kumar M.** Bayesian estimation for Poission-exponential model under Progressive type-II censoring data with Binomial removal and its application to ovarian cancer data, *Communications in Statistics-Simulation and Computation*, 10.1080/03610918.2014.948189, 2014.
5. Singh S., Singh U., **Kumar M.** Bayesian inference for exponentiated Pareto model with application to bladder cancer remission time, *Transition in Statistics*, 15 (3), 405-426, 2014.
6. Singh S., Singh U., **Kumar M.**, Vishwakrma, P. Classical and Bayesian Inference for an Extension of the Exponential Distribution under Progressive Type-II censored data with binomial Removal, *Journal of Statistics Applications and probability letters*, 1 (3), 1-11, 2014.
7. Singh S., Singh U., **Kumar M.** Estimation of Parameters of Generalized Inverted Exponential Distribution for Progressive Type-II Censored Sample with Binomial Removals, *Journal of Probability and Statistics*, 1 (3), 1-12, 2013.
8. Singh S., Singh U., **Kumar M.** Estimation for the Parameter of Poisson-Exponential Distribution under Bayesian, *Journal of Data Science*, 12 (3), 157-173, 2013.

9. Singh S., Singh U., **Kumar M.** Estimation of Parameters of Exponentiated Pareto Distribution for Progressive Type-II Censored Data with Random Removals Scheme, *Electronic Journal of Applied Statistical Analysis*, 6 (2), 130-148, 2013.
10. Singh S., Singh U., **Kumar M.** Bayesian inference for exponential distribution based on progressive Type- II Censored data with random scheme, *Elixir Journal of Statistics*, 58, 14874-14881, 2013.
11. Singh S., Singh U., **Kumar M.** Estimation of Parameters of Exponentiated Pareto Model for Progressive Type-II Censored Data with Binomial Removals Using Markov Chain Monte Carlo Method, *International Journal of Mathematics and Computation*, 21(4), 88-102, 2013.

SUBMITTED
JOURNAL
PUBLICATIONS

1. **Kumar M.**, Singh S., Singh U., Bayesian inference for Poisson-inverse exponential distribution under progressive type-II censoring data with binomial removal and its application to bladder cancer, *Metrika*, April, 2015.
2. **Kumar M.**, Manzoor I., Singh S. and Singh U., Bayesian inference for Weibull Poisson model under PT-II CBRs/ Application to bladder cancer data, *Communications in Statistics-Simulation and Computation*, July, 2016.
3. **Kumar M.**, Soni S., Singh S. and Singh U., Bayesian Inference for Rayleigh distribution under partially accelerated test with progressive Type-II censoring with binomial Removal, *Journal of Statistical Computation and Simulation*, July, 2016.

CONFERENCE
PROCEEDINGS

1. **Kumar M.**, Singh S., Singh U., Estimation of parameters of Exponentiated Pareto Distribution, *Emerging Application of Bayesian and Stochastic Modeling*, ISBN 978-93-82359-60-9, Published by Mudranik Technologies Pvt. Ltd., 2012.
2. **Kumar M.**, Singh S., Singh U., Bayesian Estimation of Parameter of Exponential Distribution Under General Entropy Loss Function for Progressive Type-II Censored Data with Random Scheme, *Proceedings of National Seminar on Impact of Physics on Biological Science*, 21(4), 186-194, 2010.

PAPERS UNDER
PREPARATION

1. **Kumar, M.**, singh, S. K., Singh U., Bayesian Inference for Weibull poisson distribution under progressive type-II censoring with binomial removal.
2. **Kumar, M.**, singh, S. K., Singh U., Bayesian Inference in the Rayleigh Distribution under partially accelerated test with progressive type-II censoring with binomial removal.
3. **Kumar, M.**, singh, S. K., Singh U., Statistical Inference for Poisson exponential distribution under Optimal progressive type-II censoring.

POST
GRADUATE
THESIS
SUPERVISION

- Major Project
 - **2015**
 - Generalisations of Poisson Count Model submitted by **Ihtisham Bashir Salroo, Enrolment No. 2013MSTA006.**
 - **2016**
 - Statistical Inference for Weibull Poisson Model under Progressive type-II censoring with binomial Removal submitted by **Iqura Manzoor, Enrolment No. 2014MSTA008.**
 - Statistical Inference for Poisson exponential Model under Optimal Progressive type-II censoring submitted by **Saurabh Jain, Enrolment No. 2014MSTA019.**
 - Statistical Inference for Rayleigh Model with partially accelerated life test under Progressive type-II censoring with binomial Removal submitted by **Sukriti soni, Enrolment No. 2014MSTA020.**

CONFERENCES
SYMPOSIA

- International:
 - **2010**
 - **Presented** a paper titled "Bayesian Estimation of Parameter of Exponential Distribution Under General Entropy Loss Function for Progressive Type-II Censored Data with Random Scheme" in international conference on "Nineteenth International Conference:(IMST2010-FIM XIX) on Interdisciplinary Mathematical and Statistical Techniques" during 18/12/2010- 20/12/2010, organized by Department of Statistics, Patna University, Patna-800005.
 - **2011**
 - **Presented** a paper entitled "Classical and Bayesian Estimation of Parameters of Exponentiated Pareto Distribution for Progressive Type-II Censored Data with Random Scheme" in international conference on "New trends in life testing, Bayesian inference, Sampling Theory, Bio-Statistics, Bio-informatics and Computer Applications

” during 05/01/2011- 08/01/2011, organized by Department of Statistics and DST-CIMS, B. H. U., Varanasi-221005.

– **2012**

– **Presented** a paper entitled ”Statistical Inferences of Generalized Inverted Exponential Distribution for Progressive Type-II Censored Data”, international conference on ”Recent Advances in Mathematical Statistics and Its Applications in Applied Sciences” during 31/12/12-02/01/2013, Department of Statistics, Gauhati University, Gauhati.

– **2015**

– **Presented** a paper entitled ”Reliability Estimation in Poisson-exponential ditribution Under progressive Type-II Censoring data with binomial removal data”, International Conference on ”Optimization, computing and business analysis for sustainable development” during 20/02/2015-22/02/2015, Department of Mathematics, Central University of Rajasthan, Bandarsindri-305802, Ajmer, Rajasthan, India.

– **Presented** a paper entitled ”Reliability Estimation for Poisson-Exponential distribution under progressive Type-II Censoring under Progressive type-II censoring data with binomial removal data” International Conference on ”Statistics and Related Areas for Equity, Sustainability and Development (SRAESD-2015), XXXV Annual Convention of Indian Society for Probability and Statistics (ISPS)” during November 28/11/2015-30/11/2015, Department of Statistics, University of Lucknow, Lucknow-226007, India.

• National:

– **2011**

– **Presented** a paper entitled ”Bayesian Estimation of Parameter of Exponential Distribution Under Square and General Entropy Loss Function for Progressive Type-II Censored Data with Random Scheme”, national conference on ”Bayesian Statistics and Its Emerging Application” during 09/12/2011-10/12/2011, organized by Department of Statistics and DST-CIMS, B. H. U., Varanasi-221005.

– **2013**

– **Presented** a paper entitled ”Estimation of parameters of Generalized Inverted Exponential Distribution for Progressive Type-II Censored sample with Binomial Removal”, national conference on ”Recent Advances in Statistics and Applications (RASA)” during 15/11/2013-17/11/2013, School of Studies in Statistic, Pt. Ravishankar Shukla University Raipur-492010, Chhattisgarh.

– **2014**

– **Presented** a paper entitled ”Bayesian Estimation for poisson-exponential model under progressive Type-II Censoring data with

binomial removal and its application to ovarian cancer data”, national conference on ”Recent Advances in Statistical and Mathematical sciences and their Applications” during 04/10/2014-06/10/2014, Department of Statistic, Kumaun University Raipur, S. S. J. Campus, almora, U. K. India.

– **2015**

– **Presented** a paper entitled ”Bayesian Estimation for poisson-exponential model under progressive Type-II Censoring data with binomial removal and its application to ovarian cancer data”, national conference on ”V National Conference on Statistical inference, Sampling Techniques and Related Areas” during 24/03/2015-25/03/2015, Department of Statistics and Operation Research, Aligarh Muslim University, Aligarh-202002, UP, India.

– **Presented** a paper entitled ”Survival Inference for Poisson-Exponential distribution under progressive Type-II Censoring” national Conference on ”Time Series, Analysis and Recent Advances in Statistical modelling” during 24/08/2015-25/08/2015, Department of Statistics, Central University of Rajasthan, Bandarsindri-305802, Ajmer, Rajasthan, India.

– **2016**

– **Presented** a paper entitled ”Inference for Poisson-Exponential distribution under progressive Type-II Censoring” national Conference on ”Computational Mathematics and Operational Research(CMOR)” during 15/10/2016-16/10/2016, BK Birla Institute of Engineering and Technology, Pilani- 333031, Rajasthan, India.

WORKSHOPS

• National:

– **2009**

– **Participated** in LATEX and other Open Source Software, 07/12/2009-12/012/2009, at DST-CIMS, Banaras Hindu University (BHU), Varanasi- 221005.

– **Participated** in Advanced Training Program on Bayesian Statistics: Theory and Applications, 21/12/2009-27/12/2009, at DST-CIMS, Banaras Hindu University (BHU), Varanasi-221005.

– **2011**

– **Presented** a paper entitled ? Estimation of Parameters of Exponentiated Pareto Model for Progressive Type-II Censored Data with Binomial Removals Using Markov Chain Monte Carlo Method?, in Workshop on ?Reliability Theory and Survival Analysis, 2011” during 23/11/201-25/11/2011, organized by Indian Statistical Institute (ISI), Kolkata -700108

- **Participated** in Multivariate Analysis: Matrix Methods workshop, 28/12/2011-02/12/2011, at DST-CIMS, Banaras Hindu University (BHU), Varanasi- 221005.
- **2013**
- **Participated** in the ISBA Reginal meeting and international workshop/ conference on Bayesian theory and applications (IWCBT), 6/01/2013-10/01/2013, Department of Statistics, Banaras Hindu University (BHU), Varanasi-221005.
- **Participated** in Application in the workshop on Probability Fractional Calculus, 25/01/2013-02/02/2013, at DST-CIMS, Banaras Hindu University (BHU), Varanasi- 221005.
- **2014**
- **Participated** in Winter School on Bayesian Analysis,24/02/2014-28/02/2014, at Applied, Statistical Unit, ISI, Kolkata.
- **Participated** in Summer School on Statistical Theory and Applications, 24/03/2014-28/03/2014, BIRU Unit, ISI, Kolkata.

COMPUTER SKILLS

- Programming
 - Operating System Windows 98/2000/Window vista.
 - Application Software MS office (Word, Excel, Power Point)
 - Math /Statistical Software R, SPSS
 - Computer language FORTRAN, C, C++, and visual basic
 - DBMS FoxPro, MS Access

PERFORMANCE AREA

- Computation
 - Statistical Data Analysis
 - Computational Work in Research
 - Bayesian Computation
 - Quantitative & Qualitative Research
 - Computer Programming

PERSONAL PROFILE

- Particular
 - Father’s Name Shri Shrikumar Dubey
 - Date of Birth 29-01-1985
 - Gender Male
 - Nationality Indian

- Marital Status Married
- Languages Known English, Hindi, Bhojpuri.
- Hobbies Reading books, Listening music.

REFERENCES

Dr. S. K. Singh
Professor, Contact No: +91-09415272835
Department of Statistics E-mail: singhsk64@gmail.com
BHU, varanasi-221005, U.P. India

Dr. U. Singh
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ussingh-52@gmail.com
BHU, varanasi-221005, U.P. India

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Dr. G. P. Singh
Associate Professor, Contact No: +91-9475421080
DCM, I.M.S E-mail: singhgpbbhu@gmail.com
BHU, varanasi-221005, U.P. India

FUTURE TARGET: To work in a dynamic and reputed organization, which can utilize the inherent talent of the incumbent to the maximum. A challenging, diverse and dynamic job with good amount of freedom and work responsibility.

DECLARATION

The information given above is true to the best of my knowledge.

Date:

Place: CUH

(Manoj Kumar)