

## Personal Profile

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## Educational Profile

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Ph.D. Pondicherry University, Puducherry, Pondicherry-India; 2018  
Supervisor: Dr. Navin Chandra

M.Sc. Pondicherry University, Puducherry, Pondicherry-India; 2013  
Sub  
Specialization: Statistics

B.Sc. Patna University, Patna, Bihar; 2011  
Subject: Statistics (H), Mathematics, Physics

## Additional Qualifications

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Diploma/Examination	University/Institute	Year
P.G. Diploma in Computer Application (PGDCA)	Pondicherry University, Puducherry, Pondicherry-India	2012
P.G. Diploma in Simulation & Modeling (PGDSM)	Pondicherry University, Puducherry, Pondicherry-India	2013

## Professional Experience

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<b>Assistant Professor</b> , Department of Statistics, Rajiv Gandhi University, Arunachal Pradesh, India	May 26, 2023-till date
<b>Assistant Professor</b> , Department of Statistics, Amity University, Uttar Pradesh, India	February 10, 2020 – May 22, 2023
<b>Assistant Professor</b> , Department of Commerce, Manipal Academy of Higher Education, Manipal, Karnataka, India	July 01, 2019- January 31, 2020

## Research Interests

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- Reliability Theory and Survival Analysis
- Statistical Inference
- Bayesian Inferences

## Research Publications

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1. N Chandra and **VK Rathaur** (2020). Inferences on Non-Identical Stress and Augmented Strength Reliability Parameters under Informative Priors. *International Journal of Reliability, Quality and Safety Engineering*. 27 (4): 01-23.
2. **VK Rathaur** and N Chandra (2017). On Bayesian point estimation of non-identical Inverse Gaussian stress strength Reliability under Informative prior. *Indian Association of Productivity and Quality and Reliability*. 42(1): 21-40.
3. N Chandra and **VK Rathaur** (2017). Bayesian Estimation of Parameters of Augmenting Gamma Strength Reliability for Symmetric and Asymmetric Loss Functions. *Journal of Statistics Application and Probability*. 6(1): 17-31. Natural Science Publishing (**Impact Factor: 0.952**), **Indexed by: Google Scholar, EBESCO, (EZB) Electronic Journal library, Mlibrary, ProQuest, Zentralblatt MATH.**
4. N Chandra and **VK Rathaur** (2017). On Estimation of Augmented Strength Reliability Parameters under Non-Informative Priors: A Non-Identical case. *Model Assisted Statistics and Applications*. 12(1): 137-150. IOS Press (**Impact Factor: 0.67**), **Indexed by: Google Scholar, MathSciNet, Scopus, Ulrich's Periodicals Directory, Zentralblatt MATH.**
5. N Chandra and **VK Rathaur** (2017). Bayes Estimation of Augmenting Gamma Strength Reliability of a System under Non Informative Prior Distributions. *Calcutta Statistical Association Bulletin*. 69(1): 87-102. **SAGE Publishing.**
6. N Chandra and **VK Rathaur** (2017). Non Informative Priors for the Stress-Strength Reliability in the Generalized Augmented Inverse Gaussian Distribution. *Int. J. of Performability and Engineering*. 13(1): 45-62. (**Impact Factor: 0.54**), **Indexed by: EiCompindex, SCOPUS (Elsevier), INSPEC, Google Scholar, ProQuest.**
7. N Chandra and **VK Rathaur** (2016). On Bayesian Estimation of Generalized Augmented Inverse Gaussian Strength Reliability of a System under Different Loss Functions. *Journal of Reliability and Statistical Studies*. 9(2): 113-128. (**Impact Factor: 0.853**), **Indexed by: Google Scholar.**
8. N Chandra and **VK Rathaur** (2016). Bayesian Estimation of Augmented Exponential Strength Reliability Models under Non-informative Priors. *Mathematical Journal of Interdisciplinary Sciences*. 5(1): 15-31. (**Impact Factor: 3.22**).
9. N Chandra and **VK Rathaur** (2015). Augmented Strategy Plans for Enhancing Strength Reliability of an Equipment under Inverse Gaussian Distribution. *Journal of Mathematics in Engineering, Science and Aerospace: Special Issue on Reliability and Dependability Modeling Analysis for Complex Systems*. 6: 233-243.

## Book/Book Chapter published

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1. N Chandra and **VK Rathaur** (2015). Augmenting Exponential Stress-Strength Reliability for a coherent system. *Proceedings of National Seminar on Statistical Methods and Data Analysis* 25-34, published by Abhiruchi Prakashana, Mysore. India.
2. N Chandra and **VK Rathaur** (2015). Augmented Gamma Strength Reliability Models for Series and Parallel Coherent System, *Proceedings of National Conference on Emerging Trends in Statistical Research: Issue and Challenges*, 43-54, Narosa Publication, New Delhi, India.

## Research guidance

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Undertook complete supervision of final year M.Sc. Project/Dissertation work during their end semester.

1	Yashima Bansal	Dept. of Statistics, Amity University	<b>KAP study of COVID-19 in India</b>	2020
2	Amit Joshila	Dept. of Statistics,	Quantitative Research in Equity Market	2021

		Amity University		
3	Kaushal Singh	Dept. of Statistics, Amity University	<b>Market Basket Analysis &amp; Recommendation System Using Association Rules</b>	2021
4	Mishu Singh	Dept. of Statistics, Amity University	FLIGHT PRICE PREDICTION	2021
5	Saurabh Kumar	Dept. of Statistics, Amity University	The Effects of Gender, Physical Attractiveness, and Socioeconomic Status on Initial Attraction	2021
6	Palak Rana	Dept. of Statistics, Amity University	An Analysis of Tobacco Related Cancer in India – a study based on Hospital Based Cancer Registry	2022
7	Sweta Sonkar	Dept. of Statistics, Amity University	Literacy Program in Uttar Pradesh	2022
8	Manika Chhabra	Dept. of Statistics, Amity University	Literacy Program in MADHYA PRADESH	2022
9	Ipseeta Garg	Dept. of Statistics, Amity University	ANALYSIS OF TREND AND PREDICTION OF COVID 19 PARAMETERS FOR INDIA DURING WAVE 1 AND WAVE 3	2022

### Course/Conference/Workshop organized

1. Course/Conference/Workshop etc. on Xxxxxx by Department/Institute of ....., xxx University, State, Contry  
Duration: xx Month-xx Month, Year  
Role: Coordinator/Convenor etc.
2. Course/Conference/Workshop on Xxxxxx by Department/Institute of ....., xxx University, State, Contry  
Duration: xx Month-xx Month, Year  
Role: Coordinator/Convenor etc.

**(Instructions:** Under this section, a faculty member can include Course/Conference/Workshop etc. organized him/her in the following format. **Write down the latest first. Please delete the instructions before submitting the final CV.)**

### Course/Conference/Workshop etc. attended

- o Research paper entitled “**Bayes Estimation of Non-Identical Inverse Gaussian Stress-Strength Reliability under Non-Informative Priors**” authored by **V.K. Rathaur** and N. Chandra, is presented in the “International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences in conjunction with Bi-Decennial Convention of society of Statistics, Computer and Applications” in the Dept. of Statistics Pondicherry University during 29-31, January 2018.
- o Research paper entitled “**Augmented Strength Reliability Models for Inverse Gaussian Distribution**” authored by **V.K. Rathaur** and N. Chandra, is presented in the “National Conference on Time Series, Analytics & Recent Advances in Statistical Modelling” in the Dept. of Statistics, Central University of Rajasthan during 24– 25, August 2015.
- o Research paper entitled “**Augmentation Strategy Plans for Strength Reliability Models**” authored by **V.K. Rathaur** and N. Chandra, is presented in the “National Conference on Emerging Trends in Statistical Research: Issues and Challenges” organized by Dept. of Statistics, Pondicherry University, during 16-17 February, 2015.

**Dr. VIKASH KUMAR RATHAUR**

- Research paper entitled “**Augmented Strength Reliability of Equipment**” authored by **V.K. Rathaur** and N. Chandra, is presented in the International Conference on “Recent Developments on Statistical Theory and Practice”, organized by Dept. of Statistics, Pondicherry University, during 14-16 December, 2013.
- Completed a **Short Course on “Statistical Methods in Biological Data Analysis”** offered by Professor Saurabh Ghosh, Human Genetics Unit, ISI Kolkata organized by Centre for Bioinformatics, Pondicherry University held during 11-15 February 2019.
- Participated in “**Seminar on Role of Official Statistics in Indian Awareness, Impact and Opportunities**” organized by Department of Statistics, Pondicherry University held on 23 February 2017.
- Participated in national workshop on “**Data Science and Big Data Analytics**” organized by Department of Statistics, Pondicherry University held on 15 July 2016.
- Participated in research methodological seminar on “**Odds Ratio and Singular Values- A Contrast (Applications to Population Genetics of Asthma)**”, organized by Department of Statistics, Pondicherry University held on 18 July 2016.