

Dr. Saurabh Kumar

Curriculum Vitae

Central University of Rajasthan,
NH-8, Bandarsindri, Kishangarh
Ajmer -305817, Rajasthan, India.

☎ +91 8210597015

☎ +91 9461257082

✉ sonysaurabh123@gmail.com (P)

✉ saurabh.kumar@curaj.ac.in (O)



- **Summary of Qualification:** Hands-on experience at the Post-graduation and graduation level facility. Familiarity working at University Department. Outstanding ability to handle syllabus at post graduation and graduate curriculum. Remarkable ability to teach, inspire and developed young people. Strong organizational skills and proficiency with statistical software like SPSS, R- Software.

Experience

- **August 2022 to Current:** Assistant Professor, Department of Statistics, Central University of Rajasthan, Ajmer, Rajasthan, India.
- **July 2022 to August 2022:** Assistant Professor, Department of Statistics, Marwari College, Tilka Manjhi Bhagalpur University, Bhagalpur, Bihar, India.
- **October 2018 to May 2022:** Assistant Professor, Department of Management, Invertis University, Bareilly, Uttar Pradesh, India.

Research Interests

Time Series Analysis, Outlier, Big Data, Bayesian Inference, Biostatistics.

Doctoral Thesis

Title: A Study of Large Size Time Series Analysis in Reference to Big Data and Outlier.
Supervisor: Dr. Jitendra Kumar (Head and Associate Professor, Department of Statistics)
University: Central University of Rajasthan, Bandar Sindri, Ajmer, Rajasthan, India.
Registration Date: 8th January 2015
Submission Date: 14th January 2019.
Award Date: 3rd March 2020.

Project/Mini thesis

2012 - 2013 Master Degree Dissertation, Department of Statistics.

Title A Statistical Study on Time Management and Personality of Hostel Students in Pondicherry University.

Supervisor Dr. V.S. Vaidyanathan (Assistant Professor, Department of Statistics)

University Pondicherry University, Puducherry, India.

May, 2012 MOSPI (NSSO) Internship during May 11 - June 24, 2012.

Title State Income of Bihar.

Supervisor Dr. Jitendra Kumar Sinha (Senior Joint Director cum Head) & Mr. Bishnu Dayal Pandit (Deputy Director)

Center Directorate of Economics & Statistics, Government of Bihar, Bairak No.17, Old Secretariat, Patna - 800015.

Academic Qualification

- 2013 M.Sc in Statistics, Pondicherry University (A Central University), Puducherry, India with **8.57 CGPA** points.
- 2012 Post Graduate Diploma in Computer Applications (PGDCA), Pondicherry University (A Central University), Puducherry, India with **78%** marks.
- 2011 B.Sc (Hons) in Statistics, Patna Science College, Patna University, Bihar, India with **79.87%** marks.
- 2008 Higher Secondary, Bihar School Examination Board, Bihar, India (Distinction in Mathematics) with **65.89%** marks.
- 2005 Secondary, Bihar School Examination Board, Bihar, India with **72.57%** marks.

Fellowship & Awards

- Fellowship **Science & Engineering Research Board (SERB): International Travel Grant, 2018.** (File Number: ITS/2018/002928)
- UGC: National Fellowship for OBC**, April 2017 to September 2018. (F./2017-18/NFO-2017-18-OBC-BIH-59479/(SA-III/Website))
- CUCET - CURaj.** , November 2013 to March 2017, Central University of Rajasthan.
- Award **UGC- NET (Population Studies)**, January 2017, Roll No.- 62004908.
- Medal **Vice Chancellor Gold Medal, B.Sc.(Statistics)**, Department of Statistics, Patna Science College, Patna University.

Published Papers

(* Corresponding authors)

o **Published Paper**

1. **Kumar, S.**, Kumar, J., Sharma, V. K. and Agiwal, V. (2020) Random Order Autoregressive Time Series Model with Structural Break. *Model Assisted Statistics and Applications*, 15(3), 225-237. (**Scopus**)
doi:10.3233/MAS-200490
2. **Kumar, S***. (2020) The Pressing Problem of Non-Performing Asstes (NPA) and Employees' Cost (EC) in Indian Banking Sector: A Time Series Analysis of Select Banks of India. *Invertis Journal of Management*, 12(1), 18 – 26.
3. Kumar, J. and **Kumar, S.** (2019) A Bayesian Approach for Identification of Additive Outlier in AR(p). *Afrika Statistika*, 14(1), 1877 – 1889. (**UGC Listed**)
doi: <http://dx.doi.org/10.16929/as/2019.1877.139>
4. Kumar, J., **Kumar, S.**, Afifa, U. and Raj, R. (2018) An Alternative Approach of Handling the Outlier a Case with Indian NPS. *Journal of Data Science*, 16(1), 29–50. (**UGC Listed**)

5. Kumar, J., Chaturvedi, A., Afifa, U., **Kumar, S.** and Yusuf, S. (2017) Unit Root Test For Panel Data AR(1) Time Series Model with Augmentation Term: A Bayesian Approach. *Journal of Modern Applied Statistical Methods*, 16(2), 138–156. (**Scopus**) doi:10.22237/jmasm/1509494880
6. Kumar, J. and **Kumar, S***. (2017) Big Data Time Series Analysis: An Approach with the Size of the Time Series. *International Journal of Advanced Research in Computer Science and Software Engineering*, 7(6), 767–774. (**UGC Listed**) doi:10.23956/ijarcsse/V7I6/0220

○ **Book Chapter**

1. Aradhnaa, **Kumar, S.** and A. K. Shukla (2023) Role of Multimedia Innovative Technology in Green Banking. In Grima et. al. (Ed.). Contemporary Studies of Risks in Emerging Technology, (ISBN: 978-1-80455-567-5). Emerald Publishing Limited (**Emerald**).
2. Kumar, J., Trivedi, P. K., Agiwal, V., **Kumar, S.** and Kumar, A. (2021) Modelling of COVID-19 Outbreak in reference to Physical Parameters. In S. Chatterjee (Ed.). COVID 19: Tackling Global Pandemics through Scientific and Social Tools (ISBN: 978-0-32385-844-1). Academic Press (**Elsevier**).
3. **Kumar, S.**, Agiwal, V., Kumar, A., and Kumar, J. (2021) Modeling and Prediction of COVID – 19 Outbreak in India. In D. Dennis (Ed.). Advances in Health and Disease. Volume 46. (ISBN: 978-1-68507-180-6). Nova Science Publishers.

Recent Submissions/Works in Progress

1. **Kumar S.**, Kumar, J., Agiwal, V. and Chesneau, C. (2022) “Bayesian Inference of AO-AR(p) Model: An Application with G20’s GDP Series”. (**Submitted**)
2. **Kumar, S.** and Kumar, J. (2022) “Modelling of Indian Banking System by Identifying Common Time Series Model”. (**Submitted**)

Research Paper/Poster presentation

○ **International**

1. Participated and presented a paper “Assessing Ecopreneurship in India with Special Reference to Women Ecopreneurs” in “GenoPro - 2021, 3rd International Conference on Medical Health and Sustainable Development in Science and Technology” organised by Department of Biotechnology, Invertis University, Bareilly, Uttar Pradesh, India in association with IAAM, Sweden. during October 8 – 9, 2021.
2. Participated and presented a paper “Volatility Dynamics on COVID Era: A Study on Indian Industries” in “3rd International Conference on Recent Advances in Management & Technology ” organised by Faculty of Management, Invertis University, Bareilly, Uttar Pradesh, India. during January 8 – 9, 2021.
3. Participated and presented a poster “A Bayesian Analysis of Order Change in Autoregressive Time Series Model” in “Young Scientist Conference” organised by Indian International Science Festival - 2018, Lucknow, Uttar Pradesh, India. during October 5 – 8, 2018.

4. Participated and presented a poster “Bayesian Estimate of AR(p) Model in Presence of Additive Outlier” in “IYSC - 2017” organised by Ganpat University, Mehsana, Gujarat, India. during May 8 – 9, 2017.
5. Participated and presented a paper “Realization of Additive Outlier for an AR(p) Under Bayesian Framework” in in “IMST-FIM XXV” organised by Department of Mathematics and Statistics, Manipal University Jaipur, Rajasthan, India. during December 22 – 24, 2016.
6. Participated and presented a paper “Modeling of National Pension Scheme and its Performance” in “International Conference on Statistics for Twenty - First Century” organised by Department of Statistics, University of Kerala, Thiruvananthapuram, Kerala, India. during December 17 – 19, 2015.

○ **National**

1. Participated and presented a paper “Structural Breaks in NEFT: Evidence from Demonetization in India” in “3rd National Conference on Statistics for Science, Social Science and Humanities” organised by Rajasthan Statistical Association and Department of Mathematics and Statistics, MLSU, Udaipur, Rajasthan, India. during September 13 – 14, 2019.
2. Participated and presented a paper “Modelling of Indian Banking System: An Application with Big Data Time Series” in “2nd National Conference on Statistics for Humanities and Social Sciences” organised by Department of Lifelong Learning, University of Rajasthan, Jaipur, Rajasthan, India. during September 4 – 5, 2018.
3. Participated and presented a paper “Bayesian Estimate of AR(p) Model in Presence of Additive Outlier” in “54th Annual Conference of The Indian Econometric Society” organised by the School of Economics, Shri Mata Vaishno Devi University, Katra, Jammu & Kashmir, India. during March 7 – 9, 2018.
4. Participated and presented a paper “ARCH/GARCH Time Series Model in R” in in the workshop “Statistical Modeling and Optimization using R Software organised by Department of Mathematics, IITRAM, Ahmedabad, Gujarat., India. during February 1 – 5, 2017.
5. Participated and presented a paper “A Review of Big Data: In Reference of Time Series” in “National Conference on Time Series, & Analytics Recent Advances in Statistical Modelling” organised by Department of Statistics, Central University of Rajasthan, Rajasthan, India. during August 24 – 25, 2015.
6. Participated and presented a poster “Overview of Big Data in Reference of Statistics” in “National Conference on Time Series, & Analytics Recent Advances in Statistical Modelling” organised by Department of Statistics, Central University of Rajasthan, Rajasthan, India. during December 8 – 12, 2014.

Academic Courses

○ **Orientation Programme/Refresher Course**

1. Participate in UGC sponsored (2022-23) Online Two-Week **Refresher Course for Science Faculty** on theme “Research Methodology” organized by UGC-HRDC, Devi Ahilya Vishwavidyalaya, Indore during 17 – 30 January, 2023. (Certificate S.No.: HRDC/2022-23/14).

- **Short Term Course/Faculty Development Programme (FDP)**
 1. “Data Analysis Using SPSS”, during 25 – 30 October, 2021, Conducted by School of Management, Graphic ERA Hill University, Bhimtal Campus, Uttarakhand.
 2. “Foundation of Data Science & its Applications”, during 26 – 30 July, 2021, Conducted by AICTE Training Learning (ATAL) Academy - Indira Gandhi Delhi Technical University for Women, Delhi. (Certificate No:ATAL/2021/1623605754)
 3. “Data Analytics”, during 5 – 9 July, 2021, Conducted by AICTE Training Learning (ATAL) Academy - Centre For Electronic Governance, Jaipur, Rajasthan. (Certificate No:ATAL/2021/1623606067)
 4. “Data Science for Healthcare”, during 21 – 25 June, 2021, Conducted by AICTE Training Learning (ATAL) Academy - Vivekanandha College of Engineering for Women, Namakkal, Tamilnadu. (Certificate No:ATAL/2021/1622831472)
 5. “Innovative Pedagogy for Effective Teaching & E-Learning During COVID ERA”, during 02 – 08 June, 2021, Conducted by Institution’s Innovation Council (Ministry of Education Initiative) - IIMT College of Management, Greater Noida, Uttar Pradesh. (Certificate No:FDP/June/21/591)
 6. “Sustainable Trend in Energy & Environment (STEE - 2021)”, during 06 – 10 February, 2021, organized by Department of Chemical Engineering, Institute of Engineering & Technology, Lucknow, Uttar Pradesh. (TEQIP -III Sponsored).
 7. “Applicability of Mathematical Sciences in Emerging World”, during 28th July - 02nd August, 2020, organized by Applied Science and Humanities, Invertis University, Bareilly, Uttar Pradesh in association with International Academy of Physical Sciences and Mathematical Science Institute.
 8. “LaTeX and it’s Application for Researcher”, during 20 – 24 July 2020, organized by Vidya vardhak College of Engineering, Mysuru, Karnataka.
 9. “Current Trend in Management Research”, during 22 – 27, June 2020, organized by Faculty of Management, Invertis University, Bareilly, Uttar Pradesh.
 10. “Introduction to Biostatistics”, during July – September, 2019, Conducted by IIT Madras. (Roll No. NPTEL19BT19S21290408).
- **NPTEL Certification Course**
 1. “**Data Analysis with Python**”, IIT Roorkee, Roorkee. (January – April 2022) with Elite Silver 84%.
 2. “**Non-Parametric Statistical Inference**”, IIT Delhi, Delhi. (August – September, 2021) with 47%.
 3. “**Introduction to Biostatistics**”, IIT Bombay, Maharashtra. (July – September, 2019) with Elite Silver, 81%.
 4. “**Introduction to R Software**”, IIT Kanpur, Kanpur, Uttar Pradesh. (July – September, 2017) with Elite, 85%.
- **GIAN Course**
 1. “Big Social Data Analysis” organized by IIT, Patna, Bihar. (22 Feb – 02 Mar, 2018).
 2. “Big Data Analysis and Mining in Deep Web Repositories” organized by Department of Computer Science, Central University of Rajasthan, Rajasthan. (8 – 12 Jan, 2018).

3. “Big Data Stream Analytics” organized by Department of Mathematics, IIT, Indore, India. (26 Oct – 01 Nov, 2016).

- **Workshop/Webinar**

1. A Two Days E-Workshop on Statistical Meta-Analysis organized by the Department of Statistics, University of Delhi, Delhi, India, with Prof. Guido Knapp, Fakultät Statistik, Technische Universität Dortmund, Germany, during 23 – 24 September 2021.
2. A Two Days E-Workshop on Data Analysis Using SPSS & R for Novice Scholar, organized by Vaniniketan Institute of Management Studies, Karimnagar, Telangana, during 29 – 30 July 2020.
3. International Webinar on “Research in Academia: Three Questions We Need to Answer” on 17 July 2020, organized by School of Management, BBD University, Lucknow, Uttar Pradesh.
4. International Webinar entitled ”Socio-Cultural & Economic Impact of COVID-19 Pandemic: A Global Perspective” during June 13 – 14 June 2020.
5. National Workshop on “Learning Statistical Techniques With SPSS” organized by the Department of Statistics, Patna University, during Nov 19 – 24, 2016.
6. Research Workshop and Conference on “Statistical methods in Finance”, jointly organized by Indian Statistical Institute (Chennai Center) and Chennai Mathematical Institute, Chennai, during July 13 – 17, 2015.
7. One day workshop on “IBM SPSS-22” organized by the Department of Statistics, University of Allahabad, August 21, 2014.

Professional Association & Memberships

- Annual member of International Indian Statistical Association (IISA) for the year 2017-18.
- Lifetime member of Rajasthan Statistical Association (Reference No: RSA/L-0012/2019)

Professional Service

- **Organizing Secretary:** 4th International Conference Recent Advances in Management & Technology (ICRAMT - 2022) at Invertis University, Bareilly, Uttar Pradesh on 4 – 5 February 2022.
- **Journal Reviewer (# of papers reviewed to date):** International Journal of Systems Assurance Engineering and Management (1 manuscript)

Courses Taught/Teaching Assistant

- Courses taught at Invertis University, Bareilly, UP (August 2022 to Present).

- **Odd Semester**

1. STA 404: Real Analysis and Linear Algebra. (Year: 2022, 2023)
2. STA 501: Time Series Analysis & Forecasting (Year: 2023)
3. CSC 403 Probability and Statistics. (Year: 2022)

– **Even Semester**

1. STA306 Reliability and Survival Analysis. (Year: 2023)

○ Courses taught at Invertis University, Bareilly, UP (October 2018 to May 2022).

– **Odd Semester**

1. PHD 011: Research Methodology (Pre Ph.D. Course Work): 2020, 2021
2. BAG 308: Statistical Method (B.Sc(H) Agriculture): 2021
3. BBA 103: Business Mathematics (BBA): 2018, 2019, 2020, 2021.
4. MST 105: Computer Application and Biostatistics (M.Sc. BioTech): 2019, 2020, 2021.
5. BFM 305: Business Statistics (B.Com (H) in Financial Markets): 2018, 2019, 2020.
6. BAL 301: Business Statistics (BALLB): 2020.

– **Even Semester**

1. BCA 201: Engineering Mathematics (BCA): 2020.
2. BCM 201: Business Statistics (B.Com (Hons)): 2019.
3. BCR 203: Business Statistics (B.Com): 2019, 2020, 2021.
4. BFM 203: Quantitative Methods & Statistics (B.Com (H) in Financial Markets): 2019, 2020.
5. BCM 201: Business Mathematics and Statistics (B.Com (Hons)): 2021.
6. BBA 203: Quantitative Decision Making (BBA): 2021.

Computer Skills

○ R Software (Version: 4.1.1, 2021), SPSS (Versions: 22), Matlab and LaTeX.

References

- **Dr. Jitendra Kumar**, Head and Associate Professor, Department of Statistics, Central University of Rajasthan, Rajasthan 305817, India.
✉ vjitendrav@gmail.com (W) ; ☎ +91 8875755284
- **Prof. Anoop Chaturvedi**, Professor, Department of Statistics, University of Allahabad, Allahabad, U.P 211002, India.
✉ anoopchaturv@gmail.com (P) ; ☎ +91 9415214134.
- **Dr K. Satheesh Kumar**, Associate Professor and Head, Department of Future Studies, University of Kerala, Triveni Lane, P.O. Karyavattom, Thiruvananthapuram (T), Thiruvananthapuram (Dist.), Kerala - 695 581, India.
✉ ksktvm@gmail.com (P); ✉kskumar@keralauniversity.ac.in (W) ; ☎ +91 9249438722.
- **Dr. Vikas Kumar Sharma**, Assistant Professor (Statistics), Department of Statistics, Banaras Hindu University, Varanasi, U.P. 221005, India.
✉ vikasstats@rediffmail.com (P) ; ☎ +91 8890150517

Professional Website:

- **Current Job**
<https://curaj.ac.in/faculty/saurabh-kumar>
- **Research Gate**
https://www.researchgate.net/profile/Saurabh_Kumar57?ev=hdr_xprf
- **Publons**
<https://publons.com/researcher/3688336/saurabh-kumar/>
- **ORCID**
<https://orcid.org/0000-0002-5475-5869>
- **Google Scholar**
<https://scholar.google.co.in/citations?user=vbFMpToAAAAJ&hl=en>

Personal Information

Full Names:	Saurabh Kumar	Village:	Nekpur	Post:	Nekpur
Father:	Ratnesh Kumar	Tehsil:	Rajger	Distt.:	Nalanda (Bihar)
Mother:	Saroj Sinha	Nationality:	Indian	Religion:	Hindu
Languages:	Hindi, English	Date of Birth:	July 16 th , 1989		

Declaration

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

Date: / /
Place:

(Saurabh Kumar)