

## CURRICULUM – VITAE

Savitri Joshi  
Assistant Professor  
Department of Applied Sciences  
Indian Institute of Information Technology, Allahabad  
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### **Research Interest**

Change-Point Problems, Survival Analysis, Statistical Inference.

### **Education**

<b>Board/ University</b>	<b>Year</b>	<b>Exam</b>	<b>Result</b>
Central University of Rajasthan	2017	Ph.D. (Title: Inference for Change-Points and Related Problems under Censoring)	Completed on April 7, 2017
Mohan Lal Sukhadia University, Udaipur	2012	M.Sc. (Statistics)	83.4%
Mohan Lal Sukhadia University, Udaipur	2010	B.Sc.	75.95%
Rajasthan Board of Secondary Education	2007	Sr. Secondary	76%
Rajasthan Board of Secondary Education	2005	Secondary	82.83%

### **Employment Details**

<b>Institute /Organization</b>	<b>Position Held</b>	<b>From</b>	<b>To</b>
Indian Institute of Information Technology, Allahabad	Assistant Professor	01-10-2019	Present
Institute of Engineering and Technology, Lucknow	Assistant Professor (Contractual)	10-09-2018	30-09-2019
Narsee Monjee Institute of Management Studies, Mumbai	Assistant Professor	16-08-2017	08-09-2018

Planning Department, Government of Rajasthan	Statistical Officer	22-03-2016	10-08-2017
University College of Science	Guest Faculty	27-08-2012	31-01-2013

### Research Papers

- ❖ Bhati, D. and Joshi, S. (2018). Weighted Geometric Distribution. *Communication in Statistics: Theory and Methods*, 47(6): 1510-1527.
- ❖ Joshi, S. and Jose, K. K. (2018). Wrapped Lindley Distribution. *Communication in Statistics: Theory and Methods*, 47(5): 1013-1021.
- ❖ Joshi, S., Jose, K. K., and Bhati, D. (2017). Estimation of a change-point in the hazard rate of Lindley model under right censoring. *Communications in Statistics: Simulation and Computation*, 46(5): 3563-3574.
- ❖ Sharma, A., Verma, H. K., Joshi, S., Panwar, M. S. & Mandal, C. C. (2015). A link between cold environment and cancer. *Tumor Biology*, 36 (8): 5953-5964.
- ❖ Joshi S., and Rattihalli, R. N. (2019). Estimation of parameters in a general hazard regression change-point model. *Journal of the Indian Statistical Association*, 57(1): 19-40
- ❖ Joshi S., and Rattihalli, R. N. (2020). Estimation of parameters in the Exponential-Lindley hazard change-point model. *Advances in Intelligent Systems and Computing*, 1169: 345-356
- ❖ Rattihalli, R. N., and Joshi, S. Alternative wrapped circular distributions (under review).

### Teaching Experience

#### 2018-2019

- ❖ Mathematics-I (B. Tech Sem-I)
- ❖ Mathematics-II (B. Tech Sem-II)
- ❖ Engineering Mathematics-III (B. Tech Sem-III/IV)
- ❖ Statistics and Probability (M. Tech Sem-II)

#### 2017-2018

- ❖ Continuous Probability Distributions Practical (BSc Applied Statistics and Analytics – Sem II)
  - ❖ Descriptive Statistics –II (BSc Applied Statistics and Analytics – Sem II)
  - ❖ Descriptive Statistics –II practical in R (BSc Applied Statistics and Analytics – Sem II)
  - ❖ Testing of Hypothesis (BSc Applied Statistics and Analytics – Sem IV)
  - ❖ Operations Research-II Practical in TORA and Excel Solver (BSc Applied Statistics and Analytics – Sem IV)
  - ❖ Survival Analysis (MSc Statistics, Sem IV)
  - ❖ Operations Research – Practical (BSc Applied Statistics and Analytics – Sem III).
  - ❖ Estimation Theory (BSc Applied Statistics and Analytics – Sem III).
  - ❖ Multivariate Analysis – Practical (Multidimensional Scaling only) (MSc Statistics, Sem III).
- Theory of Sample Surveys and Vital Statistics (B.Sc. III year) from August 2012 to January 2013 as a guest faculty in University College of Science, MLSU, Udaipur.

### Administrative Experience

- ❖ Member, Board of Studies for the course MSc Applied Statistics and Analytics, NMIMS, Mumbai (2018-2019).

- ❖ Statistical Officer, Planning Department, Govt. of Rajasthan from March 2016 to August 2017.

### Major Project Guidance (M.Sc. Statistics)

Academic Year (2017-18)			
Student Name	Project done at	Project Title	Placed in
Maithili Mali	GREEKSOFT	Stock Market Prediction Using Machine Learning And Forecasting Techniques	EMCURE Health Solutions
Bhavana Nidamarthy			CRG Solutions
Shouvik Sharma			Cartesian
Dipti Ramakrishna Raul	QUANTAFIC	Applicant Screening Using Classification Techniques	EMCURE Health Solutions
Veena Pravin Waghchoure			Infosys
Mansi Pratap Rasam	QUANTAFIC	Building Application Scorecard For New Applicant	Brandscapes
Suravi Ravindranath Rao			

### Minor Project Guidance (BSc. Applied Statistics and Analytics IV SEM)

Academic Year (2017-18)		
Student Name	Subject on project based upon	Project Title
Aishwarya Seth	Testing of Hypothesis	Crime Against Women in India
Neha Doshi		
Tanvi Divekar		
Anusha Singh	Testing of Hypothesis	Performance Evaluation of Indian Airlines
Supriya Kothawade		
Sharvari Gokhale		

### Instructional School for Teachers

- ❖ Participated in the Instructional School for Teachers on “**Asymptotic Theory of Statistical Inference**” held at Department of Statistics, Savitribai Phule Pune University and funded by National Centre for Mathematics, a joint venture of TIFR and IIT Bombay.

### Papers Presented

- ❖ Presented a paper entitled “**Change-Point Problems: An Application to Survival Analysis**” in Research Fair 2016 organized by School of Mathematics, Statistics and Computational Sciences, Central University of Rajasthan On March 11, 2016.
- ❖ Presented a poster entitled “**An Overview of Financial Risk Management : An Opportunity for Statistical Research**” in a national workshop and conference on “Statistical Methods in Finance” during July 13-17, 2015 jointly organized by Indian Statistical Institute (ISI) Chennai and Chennai mathematical Institute (CMI).

- ❖ Presented a paper entitled “**Inference for Change-Point Problems**” in “National Meet of Research Scholars in Mathematical Sciences” during December 8-12, 2014 held at Department of Statistics, University of Jammu.
- ❖ Presented a paper entitled “**Detection and Estimation of a Sporadic Change in the Hazard Rate of Lindley Model under Right Censoring**” in the national conference of “Indian Society of Medical Statistics” during November 1-3, 2014 held at Department of Statistics, University of Jammu.
- ❖ Presented a paper entitled “**Detection of a Change-Point in the Bone marrow Transplant Data**” in the national conference on “Recent Advances in Statistics with Application in Finance and Actuarial Science (RASAFAS 2014)” during February 14-15, 2014 held at Department of Statistics, Central University of Rajasthan.

### **Workshops/Conferences Attended**

- ❖ Attended the national conference on “**Time Series, Analytics & Recent Advances in Statistical Modelling (NCTAS- 2015)**” during August 24-25, 2015 organized by Department of Statistics, Central University of Rajasthan.
- ❖ Attended the “**VI-MSS Workshop on Environmental Statistics (IUWES 2015)**” jointly organized by Indian Statistical Institute (ISI) Kolkata and Statistical and Mathematical Sciences Institute (SAMSI) U.S.A. during March 2-4, 2015.
- ❖ Attended the national workshop on “**Inference in Stochastic Processes**” during February 23-26, 2015 organized by Department of Statistics and Centre for Advanced Studies, Savitribai Phule Pune University.
- ❖ Attended the pre-conference workshop on “**Survival Analysis in Clinical Research**” on October 31, 2014 held at Department of Statistics, University of Jammu.
- ❖ Attended the three days lecture programme on “**Mathematical Modelling and Data Analysis in Biology**” held during October 27-29, 2014 held at Indian Institute of Technology, Mandi..
- ❖ Attended the international conference on “**Social Economic Challenges and Sustainable Solutions**” at C R Rao Advanced Institute of Mathematics, Statistics and Computer Sciences, Hyderabad during December 28-31, 2013.
- ❖ Attended the national conference on “**Recent Advances in Statistics and their Applications to Finance, Actuarial Sciences and Other Areas (RASAFAS 2013)**” during February 22-23, 2013 held at Department of Statistics, Central University of Rajasthan.

### **Membership of Academic Bodies**

- ❖ Three years membership of International Indian Statistical Association (IISA) (2015-2018).
- ❖ Annual member of Indian Science Congress Association (ISCA) for the year 2015.
- ❖ Annual member of Indian Society of Probability and Statistics (ISPS) for the year 2015.

### **References**

Prof. R. N. Rattihalli  
 Professor  
 Post Graduate Department of Statistics  
 SDM College, Ujire, DK, Karnataka  
 Email: [mr5@rediffmail.com](mailto:mr5@rediffmail.com)

Prof. A. P. Singh (Supervisor)

Professor  
School of Mathematics, Statistics and Computational Science  
Central University of Rajasthan  
E-mail: [apsingh@curaj.ac.in](mailto:apsingh@curaj.ac.in)

Prof. K. K. Jose (Co-Supervisor)  
KSCSTE Emeritus Professor  
Department of Statistics  
St. Thomas College Palai  
Mahatma Gandhi University, Kottayam  
Email: [kkjstc@gmail.com](mailto:kkjstc@gmail.com)

### **Academic Distinctions**

- ❖ “Prof. R. Krishna Pillai Best Paper Presentation Award for the year 2020”, in the Sixth International Conference on Statistics for Twenty-first Century-2020, organized by University of Kerela during 16-19 December, 2020.
- ❖ “**Best Oral Presentation Award in Statistics**” in the Research Fair, organized by School of Mathematics, Statistics and Computational Science, Central University of Rajasthan on 11 March, 2016.
- ❖ Received the “**Best Oral Presentation Award in Statistics**” at “**National Meet of Research Scholars in Mathematical Sciences 2014**”, held at University of Jammu during 8-12 December, 2014 and sponsored by SERB, DST, Govt. of India.
- ❖ Qualified UGC NET examination in November, 2014 (an essential test for getting the position of Assistant Professor in India).
- ❖ Secured “**second rank**” at university level in M.Sc. (Statistics) in 2012.
- ❖ “**Gargi Puruskar**” by Balika Shiksha Foundation, Jaipur, Govt. of Rajasthan in 2005 for securing more than 75% marks in Secondary Board Examination.

### **Technical Skills**

- ❖ Operating Systems: Windows (all versions).
- ❖ General Drafting Skills: MS office, Latex.
- ❖ Programming: R.
- ❖ Mathematical/Statistical Software: Mathematica v 9.0, TORA, SPSS.

### **Extra-curricular Activities**

- ❖ ‘C’ Certificate with ‘A’ grade in N.C.C. Air Wing (2009) (**holders of this are eligible to directly appear in the interview of Indian Defense Services without appearing in the written examination**).
- ❖ ‘B’ Certificate in N.C.C. Air Wing (2008).
- ❖ ‘**Rashtrapati Award**’ in Scout & Guide (2005) (a national level honor).
- ❖ ‘**Rajya Puraskar**’ in Scout & Guide (2004) (a state level honor).
- ❖ ‘**Rajsamand Gourav**’ for Cultural Activities (a district level honor) (2001).

**Received many interschool prizes in cultural activities.**

### **Personal Information**

Father's Name : Mr. Roshan Lal Nagda (Joshi)  
Mother's Name : Mrs. Pushpa Nagda  
Date of Birth : February 15, 1991  
Sex : Female  
Marital Status :Married  
Spouse Name : Mr. Naveen Chandra Tiwari  
Nationality : Indian  
Languages known : Hindi, English  
Permanent Address : 592/5, Rajeev Nagar, Kharika, Telibagh, Lucknow, Uttar Pradesh, 226029

I hereby undertake that all the information provided by me is true to the best of my knowledge.

(SAVITRI JOSHI)