

## CURRICULUM VITAE



# Dr. Taruna Kumari

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## EDUCATIONAL QUALIFICATION

### ❖ DOCTOR OF PHILOSOPHY

2014 - 2018 | Department of Statistics, University of Delhi, Delhi, India  
Topic: Reliability and Life Testing  
Supervisor: Prof. Ajit Chaturvedi

Defended

### ❖ MASTER OF PHILOSOPHY

2009 - 2012 | Department of Statistics, University of Delhi, Delhi, India  
Topic: Order Statistics  
Supervisor: Prof. Jagdish Saran  
Division - I.

### ❖ MASTER OF ARTS

2007 - 2009 | Hindu College, University of Delhi, Delhi, India  
Subject: Statistics  
Division - I.

### ❖ BACHELOR OF ARTS

2004 - 2007 | Miranda House, University of Delhi, Delhi, India  
Subject: Mathematics  
Division - I.

## TEACHING EXPERIENCE

- ❖ Working as an Assistant Professor (Ad-hoc) from 19 August 2015 to till date in the Department of Statistics, University of Delhi (DU), Delhi-110007, INDIA.

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- ❖ Worked as an Assistant Professor (Ad-hoc) from 21 July 2010 to 18 August 2015 in the Department of Statistics, Sri Venkateswara College, DU, Benito Juarez Rd, Dhaula Kuan Enclave I, Delhi-110021, INDIA.

### REFRESHER COURSE & FACULTY DEVELOPMENT PROGRAMMES COMPLETED:

- ❖ ONLINE FACULTY DEVELOPMENT PROGRAMME on  
Topic : OPEN SOURCE TOOLS FOR RESEARCH  
Time : 08 JUNE – 14 JUNE, 2020  
Organized by: Teaching Learning Centre and Research Development and Services Cell of Ramanujan College, University of Delhi
- ❖ REFRESHER COURSE  
Topic : Science of Yoga and Meditation  
Time : 17 June - 30 June, 2020  
Organized by: Centre for Professional Development in Higher Education
- ❖ TWO WEEK ONLINE FACULTY DEVELOPMENT PROGRAMME on  
Topic : ADVANCED CONCEPTS FOR DEVELOPING MOOCS  
Time : 1 JULY – 16 JULY, 2020  
Organized by: Teaching Learning Centre and Research Development and Services Cell of Ramanujan College, University of Delhi
- ❖ ONLINE FACULTY DEVELOPMENT PROGRAMME on  
Topic : TIME SERIES AND PANEL DATA ANALYSIS  
Time : 20 JULY – 26 JULY, 2020  
Organized by: Teaching Learning Centre and Research Development and Services Cell of Ramanujan College, University of Delhi

### NATIONAL LEVEL EXAM

- ❖ Qualified Joint CSIR-UGC Test for NET and JRF in the subject MATHEMATICAL SCIENCES held on 21 June 2009.

### COMPUTATIONAL EXPERTISE

MS-Office: MS Word, MS Excel and PowerPoint  
Knowledge of C Programming, R language, SPSS, LaTeX

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### CERTIFICATES ACHIEVED

- ❖ Successfully completed Certification Course On "Learn to create a MOOC course" conducted by E & ICT Academy, Indian Institute of Technology, Kanpur.
- ❖ Certificate from 'Centre for Information Technology' in Office Automation with M.S. Office 2000.

### TALKS AND WORKSHOP ORGANIZED

- ❖ Organized a Webinar on "Yoga and Pranayama for Stress Management", on 21 June 2020 through Google Meet.
- ❖ Organized invited talks on "Importance of Yoga and Meditation", on 17 Jan 2019.
- ❖ Worked as an organizing committee member of "Interdisciplinary Faculty Development Programme on Data Analysis using Software Packages" organized by Department of Statistics, Hindu College, DU, 10-22 Dec 2018.
- ❖ Organized invited talk on "Role of Statistics in IT Sector" and "Statistics and Analytics", on 10 February, 2017.

### WORKSHOP AND CONFERENCES ATTENDED

- ❖ 6-9 August 2018: Presented the paper entitle "Robust Bayesian analysis of generalized inverted family of distributions" in "**11<sup>th</sup> Triennial Conference of Association of Asia Pacific Operational Research Societies (APORS) in Kathmandu 2018**". NEPAL.
- ❖ 1-3 June 2018: Presented the paper entitle "Estimation and comparison of the stress-strength models with more than two states under Weibull distribution and type II censoring scheme" in "**The 33<sup>rd</sup> Annual Conference of The Ramanujan Mathematical Society**" (ACRMS-2018) held at Department of Mathematics, University of Delhi, Delhi, INDIA.
- ❖ 14-15 Sep 2013: Attended "**Workshop on Statistical Computing using R**", organized by Department of Statistics, University of Delhi, Delhi, INDIA.
- ❖ 19-20 Nov 2012: Attended Participated in "**International Seminar on History of Mathematics**" held at Ramjas College, University of Delhi, Delhi, INDIA.

### RESEARCH CREDENTIALS

- [1] Ajit Chaturvedi, **Taruna Kumari** & Vijay Kumar Pandey (2020). On the Estimation of Parameters and Reliability functions of a New Two-Parameter Lifetime Distribution based on type II censoring. *Statistica*. (Accepted)  
ISSN 1973-2201  
**Emerging Sources Citation Index (ESCI)**

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- [2] **Taruna Kumari** & Anupam Pathak (2019). On the Comparison of Classical and Bayesian Methods of Estimation of Reliability in Multicomponent Stress-Strength Model for a Proportional Hazard Rate Model. *American Journal of Applied Mathematics and Statistics*, Vol. 7, No. 4, 152-160.  
ISSN (Print): 2328-7306  
Date of Acceptance: 04 June 2019
- [3] Ajit Chaturvedi, **Taruna Kumari** & Narendra Kumar (2019). Bayesian Estimation Procedures for Generalized Inverted Scale Family of Distributions based on Progressive Censoring. *Far East Journal of Theoretical Statistics*. Vol. 56, No. 2, 2019, 93-124  
ISSN: 0972-0863  
Date of Acceptance: 24 May 2019
- [4] Ajit Chaturvedi, **Taruna Kumari** & Narendra Kumar (2019). Numerical study of robust Bayesian analysis of generalized inverted family of distributions based on progressive type II right censoring. *Communications in Statistics-Simulation and Computation*,  
<https://doi.org/10.1080/03610918.2019.1621340>  
ISSN: 0361-0918 (Print) 1532-4141 (Online), **Taylor & Francis; IF-0.49, SCOPUS indexed**
- [5] Arti Mishra, Rashmi Rathour, Rashmi Singh, **Taruna Kumari** & Indu Shekhar Thakur (2019). Degradation and detoxification of phenanthrene by actinobacterium *Zhihengliuella* sp. ISTPL4. *Environmental Science and Pollution Research*.  
<https://doi.org/10.1007/s11356-019-05478-3>  
ISSN: 0944-1344 (Print) 1614-7499 (Online), **Springer; IF-2.9, SCOPUS indexed**
- [6] **Taruna Kumari**, Ajit Chaturvedi and Anupam Pathak (2019). Estimation and Testing Procedures for the Reliability Functions of Kumaraswamy-G Distributions and a Characterization based on Records. *Journal of Statistical Theory and Practice*, 13:22.  
<https://doi.org/10.1007/s42519-018-0014-7>  
ISSN: 1559-8608 (P) 1559-8616 (O), **Springer, SCOPUS indexed**
- [7] Ajit Chaturvedi and **Taruna Kumari** (2019). Estimation and Testing Procedures of the Reliability Functions of Generalized Inverted Scale Family of Distributions. *Statistics-A Journal of Theoretical and Applied Statistics*, vol-53, issue-1, 148-176.  
ISSN: 0233-1888 (P) 1029-4910 (O), **Taylor & Francis; IF- 0.606, SCOPUS indexed**
- [8] Rashmi Rathor, Juhi Gupta, Bhawna Tyagi, **Taruna Kumari**, Indu Shekhar Thakur (2018). Biodegradation of pyrene in soil microcosm by *Shewanella* sp. ISTPL2, a psychrophilic, alkalophilic and halophilic bacterium. *Bioresource Technology Reports*, 4, 129-136.  
<https://doi.org/10.1016/j.biteb.2018.10.004>,  
ISSN: 2589-014X, **ELSEVIER**

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- [9] **Taruna Kumari** and Bhupender kumar (2018). High-mobility group box 1 protein (HMGB1) gene polymorphisms and cancer susceptibility: A comprehensive meta-analysis. *Clinica Chimica Acta*, Vol. 483, 170-182.  
<https://doi.org/10.1016/j.cca.2018.04.042>  
ISSN: 0009-8981, **ELSEVIER; IF-2.873, SCOPUS indexed**
- [10] **Taruna Kumari**, Meenakshi Vachher, Savita Bansal, Rameshwar N.K. Bamezai and Bhupender Kumar (2018). Meta-analysis of mitochondrial T16189C polymorphism for cancer and Type 2 diabetes risk. *Clinica Chimica Acta*, Vol. 482, 136-143.  
<https://doi.org/10.1016/j.cca.2018.03.041>  
ISSN: 0009-8981, **ELSEVIER; IF-2.873, SCOPUS indexed**
- [11] Ajit Chaturvedi and **Taruna Kumari** (2018): Robust Bayesian analysis of generalized inverted family of distributions. *Communications in Statistics-Simulation and Computation*. Volume 48, 2019-Issue 8, 2244-2268.  
<https://doi.org/10.1080/03610918.2018.1438619>  
ISSN: 0361-0918 (Print) 1532-4141 (Online), **Taylor & Francis; IF-0.49, SCOPUS indexed**
- [12] Ajit Chaturvedi and **Taruna Kumari** (2019): Estimation and comparison of the stress-strength models with more than two states under Weibull distribution and type II censoring scheme. *Communications in Statistics - Theory and Methods*, VOL. 48, NO. 3, 537–548.  
ISSN: 0361-926 (Print) 1532-415X (Online), **Taylor & Francis; IF- 0.311, SCOPUS indexed**
- [13] Ajit Chaturvedi and **Taruna Kumari** (2017): Robust Bayesian Analysis of Generalized Half Logistic Distribution. *Statistics, Optimization & Information Computing*, Vol. 5, 158–178.  
ISSN 2310-5070, **SCOPUS indexed**
- [14] Ajit Chaturvedi and **Taruna Kumari** (2017): Estimation and Testing Procedures for the Reliability Functions of a General Class of Distributions. *Communications in Statistics - Theory and Methods*, Vol. 46, No. 22, 11370-11382.  
ISSN: 0361-926 (Print) 1532-415X (Online), **Taylor & Francis; IF- 0.311, SCOPUS indexed**
- [15] **Taruna Kumari** and Anupam Pathak (2014): Relations for moments of generalized order statistics from Chen distribution and its characterization. *Journal of Combinatorics Information and System Sciences*, Vol. 39, No. 1-4, pages 49-56.  
ISSN: 0250-9628.
- [16] Jagdish Saran and **Taruna Kumari** (2013): Recurrence relations for marginal and joint moment generating functions of upper k-record values from Gompertz distribution. *ProbStat Forum*, Vol. 06, 96-106.  
ISSN 0974-3235.

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- [17] Ajit Chaturvedi and **Taruna Kumari** (2015): Estimation and testing procedures for the reliability functions of a family of lifetime distributions. *InterStat. YEAR/2015/abstracts/1504001.php*. Available at <http://interstat.statjournals.net/INDEX/Apr15.html>  
ISSN 1941-689X.
- [18] **Taruna Kumari** and Anupam Pathak (2014): Conditional expectation of certain distributions of dual generalized order statistics. *International Journal of Mathematical Analysis*, Vol. 08, no. 3, 141-148.  
ISSN 1312-8876.
- [19] **Taruna Kumari** and Anupam Pathak (2013): Recurrence relations for single and product moments of record values from Chen distribution and a characterization. *World Applied Sciences Journal*, 27(12), 1812-1815. ISSN 1818-4952.

## WORK DONE UNDER DIFFERENT COMMITTEES

- [1] **Department of Statistics, University of Delhi, Heritage Club coordinator**
- Coordinator of the “Heritage Club” of the Department of Statistics for the academic year 2016-2017, 2017-2018, 2018-2019, 2019-2020.
  - Organized invited talks and implementation session on “Yoga and Pranayama for Stress Management”, on 21 June 2020.
  - Organized Yoga Photo Competition on the occasion of International Yoga Day, on 21 June 2020.
  - Organized “Sport’s meet inspired by Fit India Movement” event for students on 09 November 2019.
  - Organized “Yoga Implementation session” for students on 27 February 2019.
  - Organized invited talks on “Importance of Yoga and Meditation”, on 17 January 2019.
  - Organized a Heritage Walk for the Teaching/Non-Teaching and students of M.Sc. / M.Phil /Ph.D to Tughlaqabad Fort in 2019.
  - Organized a Lohri celebration for the Teaching/Non-Teaching and Students on 12 January 2018.
  - Organized a Rangoli competition and sweet distribution for the students on the occasion of Holi, 27 February 2018.
  - Organized a Heritage Walk for the Teaching/Non-Teaching and students of M.Sc. / M.Phil /Ph.D to Mehrauli Archaeological Park on 11 February 2017.
- [2] **National Assessment and Accreditation Council (NAAC):**
- Prepared “presentation for the NAAC visit” during the academic year 2017-2018, 2018-2019.
  - Coordinated and contributed, in the preparation of “Extended Profile for Department of Statistics”, for the NAAC visit during the academic year 2017-2018.

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- Prepared the “Quantitative Metrics for Department of Statistics-SSR”, for the NAAC visit during the academic year 2017-2018.

### [3] University of Delhi CONVOCATION:

- Actively participated as a Reception committee member in the 94<sup>th</sup> ANNUAL CONVOCATION, University of Delhi held on 18<sup>th</sup> November 2017.
- Actively participated as a Reception committee member in the 93<sup>rd</sup> ANNUAL CONVOCATION, University of Delhi held on 19<sup>th</sup> November 2016.

### [4] Departmental Examination and Admission Committee:

- Worked as the member of the committee for conduct of M.Phil./Ph.D. admission, during the academic years 2017-2018, 2018-2019 in Department of Statistics, University of Delhi.
- Worked as the member of the internal assessment committee for the academic year 2016-2017 in Department of Statistics, University of Delhi.
- Worked as the member of the committee for conduct of M.A./M.Sc. Examination, 2017 in Department of Statistics, University of Delhi.

### [5] Other Activities

- Actively participated in 'Antardhvani' the annual cultural festival of the University of Delhi held between 14 and 16 Feb 2014.
- Member of the Anti-Eve Teasing Committee for the academic year 2016-2017 in Department of Statistics, University of Delhi.
- Coordinator in uploading the list of journals on UGC website, during the academic year 2016-2017.
- Prepared the “list of books”, with Dr. Garima Priyadarshini, of 800 books (approx.), available in the library of Department of Statistics, during the academic year 2015-2016.

## PERSONAL DETAILS

Father's Name : Sh. Puran Chand  
Date of Birth : 13<sup>th</sup> August, 1986  
Marital Status : Married  
Nationality : Indian  
Language Known : Hindi & English

**DATE:**

**PLACE:**

**(SIGNATURE)**