




## Faculty Details proforma for DU Web-site



Title	Dr.	First Name	Dreamlee	Last Name	Sharma	Photograph
Designation						
Department						
Address (Campus)		Department of Statistics, University of Delhi, Delhi-110007				
(Residence)		Kolkata, West Bengal				
Phone No (Campus)		+91-112-766-6671; Ext. 307 (0)				
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Email		dsharma@stats.du.ac.in				
Web-Page		-				
Education						
Subject		Institution		Year	Details	
Statistics (H), Mathematics, Computer Science		Assam University		2010	B.Sc. with honours in Statistics	
Statistics		North Eastern Hill University		2012	M.Sc. in Statistics (Gold Medalist)	
PhD in Statistics		North Eastern Hill University		2018	Thesis Title: Some Aspects of Statistical Modeling Based on Quantile Function	
Career Profile						
Organisation / Institution		Designation		Duration	Role	
University of Delhi		Assistant Professor		01-07-2023 to Present	Teaching and Research	
St. Xavier's University		Assistant Professor		01-07-2022 to 30-06-2023	Teaching and Research	
St. Xavier's University		Contractual Faculty		01-01-2022 to 30-06-2022	Teaching and Research	

Adamas University	Assistant Professor	23-07-2018 to 31-10-2021	Teaching and Research
Research Interests / Specialization			
Quantile based Statistical Modeling Distribution Theory Regression Analysis			
Teaching Experience (Subjects/Courses Taught)			
Statistical Inference, Probability Theory, R Programming, Multivariate Analysis, Linear Algebra			
Publications			
<ol style="list-style-type: none"> <li>1. <b>Dreamlee Sharma</b> and Tapan Kumar Chakrabarty (2016). On size biased Kumaraswamy distribution. <i>Statistics, Optimization &amp; Information Computing</i>, 4(3): 252 – 264. DOI: <a href="https://doi.org/10.19139/soic.v4i3.217">10.19139/soic.v4i3.217</a></li> <li>2. <b>Dreamlee Sharma</b> and Tapan Kumar Chakrabarty (2017). Some general results on quantile functions for the generalized beta family. <i>Statistics, Optimization &amp; Information Computing</i>, 5(4): 360–377. DOI: <a href="https://doi.org/10.19139/soic.v5i4.312">10.19139/soic.v5i4.312</a></li> <li>3. <b>Dreamlee Sharma</b> and Tapan Kumar Chakrabarty (2018). The quantile based flattened logistic distribution: Some properties and applications. <i>Communication in Statistics - Theory and Methods</i>, 48(14): 3643-3662. DOI: <a href="https://doi.org/10.1080/03610926.2018.1481966">10.1080/03610926.2018.1481966</a>.</li> <li>4. Tapan Kumar Chakrabarty and <b>Dreamlee Sharma</b> (2021). A Generalization of the Quantile-Based Flattened Logistic Distribution. <i>Annals of Data Science</i>, 8, 603-627. DOI: <a href="https://doi.org/10.1007/s40745-021-00322-3">10.1007/s40745-021-00322-3</a></li> <li>5. Rashad Bantan, Mahmoud Elsehetry, Amal S. Hassan, Mohammed Elgarhy, Dreamlee Sharma, Christophe Chesneau, Farrukh Jamal (2021). A Two-parameter Model: Properties and Estimation under Ranked Sampling. <i>Mathematics</i>, 9(11), 1214. DOI: <a href="https://doi.org/10.3390/math9111214">10.3390/math9111214</a>.</li> <li>6. Soumik Das, Pritha Datta, Dreamlee Sharma, and Kishor Goswami. Trends in Temperature, Precipitation, Potential Evapotranspiration, and Water Availability across the Teesta River Basin under 1.5 and 2° C Temperature Rise Scenarios of CMIP6 (2022). <i>Atmosphere</i>, 13(6), 941. DOI: <a href="https://doi.org/10.3390/atmos13060941">https://doi.org/10.3390/atmos13060941</a></li> </ol>			

#### Articles in the Edited Books:

1. Tapan Kumar Chakrabarty and **Dreamlee Sharma** (2018). The quantile based skew logistic distribution with applications in A. K. Chattopadhyay and G. Chattopadhyay (eds.), Statistics and its Applications, Springer Proceedings in Mathematics & Statistics, 244. DOI: [10.1007/978-981-13-1223-6\\_6](https://doi.org/10.1007/978-981-13-1223-6_6).
2. **Dreamlee Sharma** and Tapan Kumar Chakrabarty (2019). A quantile-based approach to supervised learning in Prashant Johri, Jitendra Kumar Verma and Sudip Paul (eds.), Applications of Machine Learning, Springer, 321. DOI: <https://doi.org/10.1007/978-981-15-3357-0>.
3. **Dreamlee Sharma** (2023). Search algorithm to find the maximum likelihood estimator for quantile based distributions in Das, D. and Mahanta, K. K., (eds.), Current research in Statistics and allied Sciences, 176–179. Department of Statistics, Dibrugarh University, Assam, India.

#### Conference Presentations:

1. ***A study on the family of generalized beta distributions using quantile approach***, in DST sponsored “National Meet of Research Scholars in Mathematical Sciences”, organized by Department of Statistics, Gauhati University, Guwahati from 24<sup>th</sup> to 28<sup>th</sup> Nov, 2015.
2. ***The quantile based skew logistic distribution with applications***, in “Platinum Jubilee International Conference in Applications of Statistics” organized by Department of Statistics, Calcutta University during 21<sup>st</sup> to 23<sup>rd</sup> December, 2016.
3. ***Some general results on the quantile functions of the generalized beta family***, in UGC sponsored national seminar on “Recent Trends in Theoretical and Applied Statistics-II” organized by Department of Statistics, Dibrugarh University during 24<sup>th</sup> to 25<sup>th</sup> March, 2017.
4. ***A Quantile-Based Symmetric Distribution With Applications***, in “National Conference On Advanced Developments in Theoretical and Applied Statistics” organized by Department of Statistics, Banaras Hindu University during 13<sup>th</sup> to 15<sup>th</sup> November, 2017. (ADTAS-2017)
5. ***A Generalization of the Inverse Generalized Power Weibull Distribution***, in “Silver Jubilee (Annual) International Conference of the Society of Statistics, Computer and Applications (SSCA) on Significance of Statistical Sciences in the Emerging Scenario (SSSES 2023 –SSCA XXV)” organized by Department of Statistics, University of Jammu, during 15<sup>th</sup> to 17<sup>th</sup> February, 2023.
6. ***Search Algorithm to Find the Maximum Likelihood Estimator for Quantile Based Distributions***, in “International Conference on the theme Reflections on Research beyond Discipline” organized by St. Xavier’s University, Kolkata during 3<sup>rd</sup> to 4<sup>th</sup> March, 2023.

**Workshops attended:**

- ❖ Workshop on “Applications of Mathematics in Science & Engineering Under TEQIP - II”, held during 2 – 4 August, 2012 at NIT Silchar.
- ❖ Workshop on “Statistical Computing and its Applications” (under North-East Training Programme): BIRU, Kolkata, held at North Eastern Hill University, Shillong, during November 29 – December 01, 2012.
- ❖ Workshop on “Censusinfo Software and Data Dissemination of Census 2011” held at NEHU, Shillong on 7<sup>th</sup> March, 2014.
- ❖ “NBHM Sponsored Mathematical Olympiad Orientation Programme” held at NEHU, Shillong during 8<sup>th</sup> to 11<sup>th</sup> Dec, 2014.

**Administrative Responsibilities**

- Served as the acting head, Department of Statistics, St. Xavier’s University, Kolkata from 1st July, 2022 to 30<sup>th</sup> June 2023

**Other Details**

- Coordinator of a Webinar on “The Art of Counting in the Strange World of Infinity” conducted by the School of Basic and Applied Sciences, Adamas University.
- Completed UGC-Sponsored refresher course in Statistics organized by North Eastern hill University, Shillong from 15th Feb – 27th Feb, 2021.
- Completed virtual faculty development programme on “Statistical Methods in Biological Sciences” jointly organized by Faculty of Sciences (Statistics) & Internal Quality Assurance Cell, Assam down town University from 29th June – 5th July, 2021.
- Completed One Week Faculty Development Programme on “Institutional Values and Best Practices” organized by St. Xavier’s University, Kolkata from 20th June – 27th June, 2022.
- Completed one day workshop on “Scope of ‘R’ in Data Analysis” organized by LCERI, St. Xavier’s University, Kolkata on 25th November, 2022
- Invited speaker in Gurucharan College on the topic “An Introduction to a Different Universe of Statistics” on 24th December, 2022.
- Delivered lecture on “Statistical Inference” and “Regression Analysis” in a 3-day workshop on “Data Analytics and Machine Learning” organized by the Faculty of Science, St. Xavier’s University from 11th May – 13th May, 2023.
- Co-coordinator of a 3-day workshop on “Data Analytics and Machine Learning” organized by the Faculty of Science, St. Xavier’s University from 11th May – 13th May, 2023.

*Dreamlee Sharma*

(Signature of Faculty Member)