

Dr. Surabhi Dasgupta

*Department of Statistics
St. Xavier's College (Autonomous) Kolkata. India.*

Designation: Associate Professor

Qualification: M.Sc (Statistics), Phd.

Institutional mail id: sdg.stat@sxccal.edu

***Teaching Experience: UG: 27 years.
PG: 3 years***

Head of the Department (2009-2012).

Academic collaborator of JBNSTS (2015 -2016)

Guest Faculty at the Higher Secondary section of Ramkrishna Mission Sarada Mandir Girls' School, Sarisha, 24 Paraganas (South), West Bengal. (July 2023 onwards)

Specialisation: Advanced Multivariate Analysis, Statistical Inference, Operations Research

Research Interest:

***Markov Chains & Time Series
Statistical Inference
Interdisciplinary Applications of Statistics***

Pursued PhD under the supervision of Late Prof. (Dr.) U. K. De, School of Environmental Studies, Jadavpur University.

Title of Thesis: "Application of Statistics for Forecasting and Characterization of pre-monsoon convective developments."

Collaboration :

- 1. Avik Ghosh Dastidar (School of Environmental Studies, Jadavpur University) (2008-2010)***
- 2. Deepanwita Ghosh (Indian Association for the Cultivation of Science). (2008 -2010)***
- 3. Ft. Lt. Amol Yadav (Meteorological Department, Indian Air-Force, Panagarh Base. (2017).***

Student Projects & Internships:

- 1. Guiding UG & PG students in their final year dissertation projects.***
- 2. Guiding students from IISER, NIT, CMI & Central Universities for their summer and winter internships.***

Publication:

- 1. Antimicrobial and antibiofilm effect of *Bergenia ciliata* (Haw.) Sternb plant parts against oral clinical isolates: A comparative study. (2024). N. Mokhtan, R. Dey, T. Paul, D.N. Roy, S. Dasgupta, R. Kundu & A. Banerjee (2024) (Under Review in Archives of Oral Biology)***
- 2. Ideal teacher qualities as perceived by high-ability students from low socio-economic backgrounds: A study based in West Bengal, India. P. Roy and S. Dasgupta, Indian Educational Review, Vol 56 No 2(2017)***
- 3. Science Mentoring of moderately high-ability disadvantaged students in an inclusive setup: An Indian experiment. P. Roy, S. Dasgupta and M. Mukherjee (Accepted for oral presentation at the 5th World Conference on Science and Technology Education, 2016 organized by International Council of Association for Science Education (ICASE) at Antalya, Turkey.)***
- 4. A statistical study of pre-monsoon weather over South Bengal using descriptive and inferential techniques. S. Dasgupta & U. K. De Mausam, Vol 61 (Issue 4) (2010) pp 547- 552.***
- 5. Higher order Markov Chain models for monsoon rainfall over Gangetic West Bengal, India. A. Ghosh Dastidar, D. Ghosh, S. Dasgupta & U. K. De, Indian Journal of Radio and Space Physics, Vol 39 (2010), pp 39-44.***
- 6. Binary Logistic Regression Models for short-term prediction of pre-monsoon convective developments over Kolkata (India). S. Dasgupta & U.K. De, International Journal of Climatology, Vol 27(2007) pp 831-836.***
- 7. A Logistic Regression Model for prediction of pre-monsoon convective developments over Kolkata (India). S. Dasgupta & U. K De, Indian Journal of Radio & Space Physics, Vol 33 (2004), pp 252-255.***
- 8. Markov Chain Models for pre-monsoon thunderstorms in Calcutta, India. S. Dasgupta & U.K. De, Indian Journal of Radio & Space Physics, Vol 30 (2001), pp 138-142.***

Seminars and Workshops:

Resource Person

- Delivered a talk on “Testing of Hypothesis” at a 3-day workshop on Data Driven Decision-Making in Research organized by the Department of Statistics, St. Xavier’s College (Autonomous) Kolkata in collaboration with the Post graduate department of Sociology, St. Xavier’s College (Autonomous) Kolkata.***

- *Delivered a talk on “Looking at Data: A Statistical Overview” at a 5-day workshop on “Machine Learning in Data Science” at B.P. Poddar Institute of Management & Technology, Kolkata from August 11th - 15th 2020. (Held Online).*

Rapporteur

- *At Samindranath Sengupta Memorial Session at the International Triennial Symposium on Probability and Statistics held at the Department of Statistics, University of Calcutta on December 29th 2018.*

Organiser / Convener

- ***Organising Committee member*** of a national seminar on “*Applications of Statistics in Natural Sciences*” organized by the *Department of Statistics & Physics, St. Xavier's College (Autonomous) Kolkata in collaboration with IUCAA Centre for Astronomy, Research & Development (ICARD), Kolkata from December 16th-17th, 2019.*
- ***Joint Convener*** of a national seminar on “*Applications of Statistics and Statistical Computing*” organised by *Department of Statistics, St. Xavier's College, Kolkata (Autonomous) from January 30th- 31st, 2013.*

Participant

- National Seminar on “*Applications of Statistics in Multidisciplinary fields*” at *Lady Brabourne College, Kolkata from November 26th- 27th, 2011.*
- ***Paper presentation*** on “*Pre-monsoon weather in North Bengal and adjoining hilly areas : A Statistical Overview*” at the national seminar on “*Geo-scientific aspects of landscape evolution of North Bengal – Sikkim: Environmental Problems & Development Prospects*” sponsored by *West Bengal Academy of Science(WAST) at Central Glass & Ceramic Research Institute (CGCRI) from December 8th – 9th, 2005.*
- National Seminar on “*Statistics in Industry, Business and Finance*” at the *Department of Statistics, University of Calcutta from March 21st- 22nd, 2003.*
- ***Poster presentation*** on “*Markov Chain Models for pre-monsoon thunderstorms in Calcutta (India)*” at the *7th State Science & Technology Congress sponsored by the Department of Science & Technology and NES, Govt. of West Bengal, West Bengal State Council of Science & Technology and Paschimanga Vigyan Mancha held at Jadavpur University from February 28th- March 1st 2000.*