Prof. 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: 27 years. (**Teaching & Project Supervision of UG & PG students**).
Head of the Department (2009-2012).

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 ofEnvironmental Studies, Jadavpur University**.

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

Collaboration :

At personal level:

1. Pursued post-doctoral research jointly with **Avik Ghosh Dastidar** of the **School of Environmental Studies, Jadavpur University** and **Deepanwita Ghosh** of **Indian Association for the Cultivation of Science.** (2008-2010).

2. Guided **Ft. Lt. Aamol Jadav ,** Meteorological Department, **Indian Air-Force, Panagarh Base** in his reserach project "Higher Order Markov Chains for thunderstorms over Panagarh." (2017).

At institutional level:

Was the academic collaborator of **Jagadis Bose National Science Talent Search** (JBNSTS) from 2015-2016 in their project under the West Bengal District Scheme (WBDS) funded by the Department of Higher Education, Government of India.

Student Projects &Internships:

1. ***Guiding UG & PG students in their final year dissertation projects from 2009 onwards.***
2. ***Guiding students from reputed national institutes like IISER, NIT, CMI & Central Universities for their summer and winter internships.***

Publications:

1. 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)***

2. 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.)*

3. 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***.

4. 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.

5. 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.***

6. 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.***

7. 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:

1. Was a ***resource person*** at a 5-day workshop on "***Machine Learning in Data Science***" at B.P. Poddar Institute of Management & Technology, Kolkata from August 11th to August 15th 2020. (***Held Online***).

2. Was session ***Rapporteur*** at the 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.

3. Was Joint Convener of a National Seminar on *"Applications of Statistics and Statistical Computing"* organised by St. Xavier`s College, Kolkata (Autonomous) from January 30th-January 31st, 2013.

4. Participated in a National Seminar on *"Applications of Statistics in Multidisciplinary fields"* at Lady Brabourne College, Kolkata from November 26th-November 27th 2011.

5. 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 – December 9th 2005.

6. Participated in a National Seminar on *"Statistics in Industry, Business and Finance"* at the Department of Statistics, University of Calcutta from March 21st-March 22nd, 2003.

7. 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 Paschimbanga Vigyan Mancha held* at Jadavpur University from Februaury 28th- March 1st 2000.