

Curriculum Vitae

Dr. (Ms) Surabhi Dasgupta

Current Position Associate Professor (UGC Post)

Department of Statistics,
St. Xavier's College (Autonomous).
30 Park Street
Kolkata- 700016, West Bengal
India.

Teaching Experience

- B.Sc (Statistics Honors /Major): 29 years. (1996-present)
- M.Sc (Data Science): 3 years (2022 -present)

Positions held in the Department of Statistics, St. Xavier's College (Autonomous) Kolkata.

- Associate Professor - (2013 - Present)
- Assistant Professor (Stage 3) - (2010-2013)
- Assistant Professor (Stage 2) - (2005-2010)
- Assistant Professor (Stage 1) - (1996-2005)
- Head of the Department. (2009-2012)
- Dissertation supervisor of undergraduate and postgraduate students. (2009 onwards)

External Positions

- Project Evaluator of MCA in MAKAUT (Maulana Abul Kalam Azad University of Technology) (2024- present)
- Guest Faculty, SRKM Girls' Higher Secondary School, South 24 Parganas, West Bengal. (2023-2026) (Honorary)
- Project guide and internship mentor of students from national institutes IISER, CMI, NIT (2020- Present)
- Research & Academic Collaborator, JBNSTS, Kolkata. (2015 -2018).

Consultancy

Indian Institute of Audiology and Speech, Regional Centre, Kolkata. (Main Campus: Mumbai). (2024-2025)

Education

- PhD, Jadavpur University (Atmospheric Science Research Group) (1999-2008)
- Part-time Lecturer in Statistics at St. Xavier's College. Kolkata (1996-1999)
- CSIR Junior Research Fellow at Department of Statistics, University of Calcutta (1995-1996)
- CSIR NET (1995)
- M.Sc (Statistics), University of Calcutta (1992-1994)
- B.Sc (Statistics) , Presidency College, Kolkata (1989-92)

About me

I am into undergraduate and post graduate teaching of Statistics and research and other allied academic activities for close to 30 years now. Interdisciplinary research has always been an area of interest for me largely due to my educational background in Statistics. My doctoral thesis was on the applications of advanced Statistics in Meteorology. But over the years I have developed a keen interest in applications of Statistics in other diverse fields like Clinical Psychology, Business & Finance Microbiology & Medicine.

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Research Interest:

- Markov Chains & Time Series
- Statistical Inference
- Interdisciplinary Applications of Statistics (Meteorology, Psychology, Microbiology, Medicine)

Software Knowledge

- MINITAB
- R

Collaborators

- Dr. Palash Ghosh, Department of Mathematics, Indian Institute of Technology, Guwahati, Assam, India.
- Mr. Archisman Mukherjee, Student, Integrated BS-MS, IISER, Kolkata, Kalyani, India.
- Dr. Anindita Banerjee, Dept. of Microbiology, St. Xavier's College (Autonomous) Kolkata.
- Dr. Paromita Roy, Deputy Director, JBNSTS, Kolkata..
- Ft. Lt. Amol Yadav, Meteorological Department, Indian Air-Force, Panagarh Base.
- Dr. Deepanwita Ghosh, Indian Association for the Cultivation of Science, Kolkata.
- Dr. Avik Ghosh Dastidar, School of Environmental Studies, Jadavpur University, Kolkata
- Late Prof (Dr) UK De, Dept. of Physics, Jadavpur University, Kolkata.

Publications (SELECTED)

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 revision)

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)

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.)

A statistical study of pre-monsoon weather over South Bengal using descriptive and inferential techniques. S. Dasgupta & U. K. De Mousam, Vol 61 (Issue 4) (2010) pp 547- 552.

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.

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.

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.

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:

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Invited talks (RECENT)

- A talk on Distress & De-stress at the inaugural session of INTRASTAT, organized by the Department of Statistics, St. Xavier's College (Autonomous) Kolkata on November 4, 2025.
- 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, from July 18th- 20th, 2024.
- 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).
- Session Rapporteur of the Samindranath Sengupta Memorial Session at the Triennial Symposium on Statistics & Probability organized by the Department of Statistics, University of Calcutta on December 29th, 2018.

Contributory Participation

- National Seminar on Applications of Statistics in Multidisciplinary fields at Lady Brabourne College, Kolkata from November

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26th- 27th, 2011.

- 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.
- 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 February 28th- March 1st 2000.

Organisation

- Organising Committee member of the 9th international conference of ICDMAI, held at St. Xavier's College (Autonomous) Kolkata jointly with ADAMAS University in association with University of Calcutta & NIELIT, Jadavpur University from January 17th-19th, 2025
- 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, (Autonomous)Kolkata from January 30th- 31st, 2013.

Personal Details

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