FACULTY PROFILE (SB)

Name: Dr. Sancharee Basak.

Designation: Assistant Professor.

Department: Statistics.

Qualification:
- M.Sc. in Statistics, University of Calcutta (2015).
- Ph.D. in Statistics, Indian Statistical Institute, Kolkata (2022).

Email ID: sancharee93@sxccal.edu

Doctoral Research Topic: "*Minimum divergence estimation using the extended Bregman divergence and optimal tuning parameter selection*".

Teaching Experience:
- Taught Sampling Distribution, Statistical Inference, Probability and R Programming at the Department of Statistics of Sister Nivedita University.
- Teaching Probability, Sampling Distributions, Demography, Large Sample Theory, R Programming and Minitab at the Department of Statistics of St. Xavier's College, Kolkata since July 2022.
- Teaching Optimization Techniques, Non-parametric Inference and Linear Models at the Postgraduate Department of Data Science of St. Xavier's College, Kolkata since January 2023.

Research Interests:
- Classical parametric inference.
- Minimum distance inference.
- Robust inference.
- Bayesian inference.

Publications:
- Sancharee Basak, Ayanendranath Basu and M. C. Jones (2021): **On the 'optimal' density power divergence tuning parameter**, *Journal of Applied Statistics*, Volume 48, Issue No. 3, pp 536-556, DOI: 10.1080/02664763.2020.1736524.
- Sancharee Basak and Ayanendranath Basu (2022): **The extended Bregman divergence and parametric estimation**, *Statistics*, Volume 56, Issue No. 3, pp 699-718, DOI: 10.1080/ 02331888.2022.2070622.
- Sancharee Basak and Ayanendranath Basu (2024): **The extended Bregman divergence and parametric estimation in continuous models**, *Sankhya B*, DOI: 10.1007/s13571-024-00333-z.

Paper Presentation and Participation in Conferences/Seminars/Workshops:
- Participated and presented a talk in the Ninth International Conference on Recent Trends in Statistical Theory and Applications 2024 (WSTA 2024), organized by the Department of

Statistics, School of Physical & Mathematical Sciences, University of Kerala jointly with International Statistics Fraternity (ISF), Kerala Statistical Association (KSA) and Statistics Fraternity Kerala (SFK) in July 2024.

- Participated in the One Week National Level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research, organized by the Internal Quality Assurance Cell (IQAC) of Gauhati University, Assam in association with ipsr solutions limited from 17th April 2024 to 24th April 2024.

- Participated and presented a talk in the Ninth International Conference on Statistics for Twenty-First Century 2023 (ICSTC 2023), organized by the International Statistics Fraternity (ISF), School of Physical and Mathematical Sciences and the Department of Statistics, University of Kerala, Trivandrum in December 2023.

- Participated and presented a talk in the International Conference on Statistical Theory and its Applications (ICSTA 2023), organized by the Department of Statistics, Bharathiar University, Coimbatore in September 2023.

- Participated and presented a talk in the Eighth International Conference on Statistics for Twenty-First Century 2022 (ICSTC 2022), organized by the International Statistics Fraternity (ISF), School of Physical and Mathematical Sciences and the Department of Statistics, University of Kerala, Trivandrum in December 2022.

- Participated and presented a talk in the VI International Scientific and Practical Conference 'Statistics and its applications', organized by the Namangan Institute of Engineering and Technology, Namangan, Uzbekistan in October 2022.

- Participated and presented a talk at the Stat Quest (2018), organized by the Department of Statistics, University of Calcutta, Kolkata.

- Participated and got certified for securing third position in the national level seminar 'Application of Statistical Tools and Techniques in Multidisciplinary Fields' (2011), sponsored by the UGC, the CSA and the Ministry of Statistics and Programme Implementation, Government of India and organized by the Department of Statistics, Lady Brabourne College, Kolkata.