



Name: Dr. Durba Bhattacharya

Designation: Assistant Professor

Department: Statistics

Qualification:

- M.Sc. in Statistics, Calcutta University (2004)
- PhD in Statistics, Indian Statistical Institute, Kolkata (2019)

Doctoral Research Topic: "Bayesian Nonparametric Approaches to Investigating Gene-Gene and Gene-Environment Interactions in Case-Control Studies".

Teaching Experience: 13 years of experience in Undergraduate teaching. Currently in the post of Assistant Professor at the department of statistics St. Xavier's College.

Research Interests:

- Bayesian Non-parametric Modelling,
- Bayesian computation, Bio-statistics,
- Multi-objective optimization,
- Machine learning.

Publications:

- "A Bayesian Semiparametric Approach to Learning About Gene-Gene Interactions in Case-Control Studies"(2018) – Journal of Applied Statistics.
- "Effects of Gene-Environment and Gene-Gene Interactions in Case-Control Studies: A Novel Bayesian Semiparametric Approach" – Brazilian Journal of Probability and Statistics (Accepted for publication)
- "A Non-Gaussian, Nonparametric Structure for Gene-Gene and Gene-Environment Interactions in Case-Control Studies Based on Hierarchies of Dirichlet Processes"- arXiv.org

Paper Presentation and Participation in Conferences:

- Presented Paper in the "Tenth International Triennial Calcutta Symposium on Probability & Statistics (Celebrating the Birth Centenary of Prof. H.K Nandi) " held during 27-30 December, 2018.
- Presented Paper in the "Ninth International Triennial Calcutta Symposium on Probability & Statistics" held during 28-31 December, 2015.
- Delivered a Talk in the "International Seminar on Game Theory and its Applications to Social and Economic Networks" held at Dibrugarh University, Dibrugarh, Assam during 10-12 December, 2014.