Faculty Profile

Name: Dr. Sucharita Roy [SR]

Designation: Assistant Professor & Head, Department of Mathematics

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Academic Qualification: M.Sc ,Ph.D.

Academic Qualification: M.Sc. in Applied Mathematics, University of Calcutta, Awarded the Degree of Doctor of Philosophy (Ph.D.) in Mathematics from the Department of Mathematics, Jadavpur University for the thesis entitled "Infinite Series, Stochastic Processes, Function Optimization and the Bayesian Panacea".

Teaching Experience: 15 years of experience in Undergraduate teaching. Research Interests: Interface between Bayesian and long-standing problems of Pure Mathematics, Probability and Stochastic Process.

Publications:

• Bayes Meets Riemann – Bayesian Characterization of Infinite Series with Application to Riemann Hypothesis, International Journal of Applied Mathematics and Statistics, 2020, Volume 59, Issue number 2- Articles; Pages 81—128; DOI number: ISSN 0973- 1377 (Print); 0973-7545 (Online)

• Function Optimization with Posterior Gaussian Derivative Process, arXiv:2010.13591, http://arxiv.org/abs/2010.13591

• Bayesian Appraisal of Random Series Convergence with Application to Climate Change, arXiv:2009.06229, http://arxiv.org/abs/2009.06229

• Bayesian Characterizations of Properties of Stochastic Processes with Applications, arXiv:2005.00035, http://arxiv.org/abs/2005.00035

 Paper Presentation and Participation in Conferences:

• Presented a paper entitled" Bayesian Characterisation of Random infinite series" at tenth International Triennial Calcutta Symposium on Probability and Statistics during the time period December 27-30,2018.

• Presented a paper entitled "Bayesian Characterisation of Infinite Series" at a one-day national seminar on contemporary developments in Mathematics and Mathematical Sciences held at the Gokhale Memorial Girls' College, Kolkata on May 19,2018.

• Presented a paper entitled "A Bayesian Approach to Determination of Convergence, Divergence and Oscillation of Infinite series with application to Riemann Hypothesis" at the Platinum Jubilee International Conference on Applications of Statistics during the time period December 21-23,2016.

• Participated in the two-day International Conference on "Environmental Stewardship and Corporate Social Responsibility" held at St.Xavier's College, Kolkata during the time period February 22-23, 2013.

• Participated and successfully completed the Winter School held at the National Institute of Biomedical Genomics during the time period January 3-10,2012.

• Participated in the Indo-Singapore Joint Workshop in "Role of Computational Biology in Advancing Modern Medicine (RCBAMM-2012)" held at Saha Institute of Nuclear Physics, Kolkata during the time- period February 2-3, 2012.

• Attended and successfully completed the workshop on "Applications of "R" in Bioinformatics" at BIF center, Vidyasagar University during the time- period December 19-20,2011.