

Name: Dr. Trisha Maitra

Designation: Assistant Professor and H.O.D

Department: Mathematics

Qualification: M.Sc, PhD

Area of Specialization: Stochastic Differential Equation, Fractional Calculus

Email: trishamaitra@yahoo.com

Academic Qualification:

- Obtained PhD in Applied Mathematics from University of Calcutta under the supervision of Dr. Sourabh Bhattacharya, Interdisciplinary Statistical Research Unit, Indian Statistical Institute, Kolkata.

Title of the thesis: Asymptotic Theories of Inference and Model Selection in Systems of Stochastic Differential Equations

- Master of Science, Mathematics
Indian Institute of Technology, Bombay
- Bachelor of Science, Mathematics
St. Xavier's College, Kolkata (Autonomous under Calcutta University)

Academic achievements:

- Selected for postdoctoral fellowship from National Board of Higher Mathematics in the year 2017.
- Secured 49th position in CSIR NET JUNE-2012 in Mathematical Science.
- Obtained Dr. P. V. Sukhatme Memorial award for securing 2nd position in the M.Sc course at IIT Bombay.

Publications:

- **Maitra, T.** and Bhattacharya,S, On Classical and Bayesian Asymptotics in Stochastic Differential Equations with Random Effects having Mixture Normal Distributions. Published in Journal of Statistical Planning and Inference, Volume – 208, Page 36-57, 2020.

- **Maitra, T.** and Bhattacharya,S, On Classical and Bayesian Asymptotics in State Space Stochastic Differential Equations. Accepted in Brazilian Journal of Probability and Statistics, 2019.
- Chatterjee, D., **Maitra, T.** and Bhattacharya, S, A Short Note on Almost Sure Convergence of Bayes Factors in the General Set-Up. Published in The American Statistician journal, Volume 72 (1), Pages 17 – 20, 2018.
- **Maitra, T.** and Bhattacharya, S, Asymptotic Theory of Bayes Factor in Stochastic Differential Equations with Increasing Number of Individuals. Published in Springer Proceedings in Mathematics & Statistics, Volume 320, Pages 447-466, 2020.
- **Maitra, T.** and Bhattacharya, S, Asymptotic Theory of Bayes Factor in Stochastic Differential Equations With Respect to Time and Individuals, Published in Applied Research International Conference, Oxford Proceedings, Pages 33-53,2018.
- **Maitra, T.** and Bhattacharya, S, On asymptotic Inference in Stochastic Differential Equations with time-varying covariates. Published in The Canadian Journal of Statistics, Volume – 46(4), Pages 635 – 655, 2018.
- **Maitra, T.** and Bhattacharya, S, On Asymptotics Related to Classical Inference in Stochastic Differential Equations with Random Effects. Published in Statistics and Probability Letters, Volume – 110, Pages 278 – 288, 2016.
- **Maitra, T.** and Bhattacharya, S, On Bayesian Asymptotics in Stochastic Differential Equations with Random Effects. Published in Statistics and Probability Letters, Volume – 103, Pages 148 – 159, 2015.

Conferences:

- Presented a paper in “International Conference On Celebrating Statistical Innovation and Impact in a World of Big & Small Data”, organized by the Department of Statistics & Centre for Advanced Studies, Savitribhai Phule Pune University during December 20-24, 2015.
- Presented a paper in “Ninth International Triennial Calcutta Symposium on Probability & Statistics ”, organized by Department of Statistics, University of Calcutta & Calcutta Statistical Association during December 28-31, 2015.
- Presented a paper in “Two Day National Seminar On Probability & Statistics”, organized by Department of Statistics, West Bengal State University during 28-29 March, 2016.

- Presented a paper in “ Platinum Jubilee International Conference On Application Of Statistics”, organized by Department of Statistics, University of Calcutta during December 21-23, 2016.
- Presented a paper in “ Applied Research International Conference Oxford Series 2018”, held at the St. Anne’s College (University of Oxford) on 15th -16th November, 2018.
- Presented a paper in “ International Conference on Applied and Computational Mathematics 2018”, organized by Department of Mathematics, Indian Institute of Technology Kharagpur during November 23-25, 2018.
- Presented a paper in “National Conference on Stochastic Differential Equations and Applications”, organized by Department of Mathematics, Indian Institute of Space Science and Technology and Indian Institute of Technology, Roorkee during June 6-7, 2019.
- Presented a paper in “9th International Congress on Industrial and Applied Mathematics”, held in University of Valencia during July 15-19, 2019.
- Organised an International webinar titled “Mathematical Models and Wavelets in COVID-19” on 7th July 2020.