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Expertise

Statistical Ecology, Sample Survey, Design of Experiments, Statistical Inference

Work experience

1. 2012—Present: Assistant Professor, Department of Statistics, Siksha-Bhavana, Visva-Bharati

Education

1. B.Sc. (Hons. in Statistics) (2008): University of Calcutta
2. M. Stat. (2010): Indian Statistical Institute
3. Ph.D. (Statistics) (2020) : University of Calcutta

Publications

1. Chattopadhyay, A., Samadder, A., Mukhopadhyay, S., Bhattacharya, S., & Lai, Y. C. (2025). Understanding pesticide-induced tipping in plant-pollinator networks across geographical scales: Prioritizing richness and modularity over nestedness. *Physical Review E*, 111(1), 014407.
2. Saha, S., Adhikari, S., Mukhopadhyay, S., & Ghosh, P. (2023). Comparative studies on regeneration of different tissues of *Bacopa monnieri* (L.) Wettst in vitro and analysis of genetic homogeneity by random DNA markers (RDMs). *Acta Ecologica Sinica*, 43(3), 513-524.
3. Ghosh, S., Banerjee, A., Mukhopadhyay, S., Bhattacharya, S., & Ray, S. (2022). Predicting the probability of avian reproductive success and its components at a nesting site. *Ecological Informatics*, 72, 101841.
4. Mukhopadhyay, S., Das, A. J., Basu, A., Chatterjee, A., & Bhattacharya, S. (2021). Does the generalized mean have the potential to control outliers?. *Communications in Statistics-Theory and Methods*, 50(8), 1709-1727.
5. Das, D., Mukhopadhyay, S., Sarbajna, A., & Chakraborty, S. B. (2020). Does fish price depend solely on weight? A market survey analysis from four districts of West Bengal, India. *Journal of Fisheries*, 8(3), 903-911.
6. Mukhopadhyay, S., Sharma, R. C., Bhattacharya, S., & Banik, P. (2020). Evidences of Allee effect in winter crops: a model based study. *International Journal of Plant Production*, 14(2), 287-297.
7. Das, D., Moniruzzaman, M., Mukhopadhyay, S., Karan, S., Sarbajna, A., & Chakraborty, S. B. (2018). Impact of metal toxicity on oxidative balance and mitochondrial enzyme function in muscle of tilapia. *Bulletin of Environmental Contamination and Toxicology*, 100(5), 647-652.
8. Mukhopadhyay, S., Hazra, A., Bhowmick, A. R., & Bhattacharya, S. (2016). On comparison of relative growth rates under different environmental conditions with application to biological data. *Metron*, 74(3), 311-337.
9. Saha, S., Dey, T., Adhikari, S., Mukhopadhyay, S., Sengupta, C., & Ghosh, P. (2016). Effects of plant growth regulators on efficient plant regeneration efficiency and genetic stability analysis

- from two *Ocimum tenuiflorum* L. morphotypes. *Rendiconti Lincei*, 27(4), 609-628.
10. Ghosh, A., Mukhopadhyay, S., Roy, S., & Bhattacharya, S. (2014). Bayesian inference in nonparametric dynamic state-space models. *Statistical Methodology*, 21, 35-48.
 11. Sil, N., Roy, P. K., Nandi, S., Chatterjee, A. N., Mukhopadhyay, S., Bhattacharya, S., & IL, H. J. (2014). Optimal control therapeutic approach to recovery of infected cells in HIV model with expected time to extinction of the disease. *Biomed Eng Res*, 3, 47-63.
 12. Sardar, T., Mukhopadhyay, S., Bhowmick, A. R., & Chattopadhyay, J. (2013). An optimal cost effectiveness study on Zimbabwe cholera seasonal data from 2008–2011. *PLoS One*, 8(12), e81231.