# Division of Socio-Economic, Extension & Training

## Personal Details

### Dr. Rohan Kumar Raman

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## Research Interest

Crop Forecasting, Modeling, Multivariate Data Analysis, Machine learning modeling, Survey Methodology and computation using R and SAS

## Research Highlights

- Development of Calibration Estimators in Survey Sampling in the Presence of Non-Response.
- Assessment of Linear Discriminant Function under Multivariate Non-Normal Situations.
- Modeling and Forecasting Marine Fish Production in Odisha.
- Influence of seasonality, salinity and temperature on catch trend of Penaeus indicus H. Milne-Edwards, 1837 in a coastal lagoon, India.
- A Multi-species modeling approach to assess the influence of hydrological regime on commercial fisheries in a tropical river–estuary system.

## Memberships / Fellowships

- Life member of Inland Fisheries Society of India.
- Life member of Zoological Society of India Bodh Gaya

## Technology Developed

## Publication Details

- Raman, R. K., Wahi, S. D., & Paul, A. K. (2012). Linear discriminant function under multivariate non-normal rice (Oryza sativa) and maize (Zea mays) data. *Indian Journal of Agricultural Sciences*, *82*(5), 426-429.
- Raman, R. K., Sud, U. C., & Chandra, H. (2016). Calibration Approach-based Product Estimator of Finite Population Total with Subsampling of No respondents under Single and Two-phase Sampling. *Communications in Statistics-Simulation and Computation*, *45*(8), 2965-2980.
- Rohan Kumar Raman, U.C. Sud & Hukum Chandra (2016) Calibration approach for estimating population total with subsampling of non-respondents under single- and two-phase sampling, Communications in Statistics - Theory and Methods, 45:10, 2842-2856, DOI: 10.1080/03610926.2014.889164
- Raman, R. K., Sathianandan, T. V., Sharma, A. P., & Mohanty, B. P. (2017). Modelling and forecasting marine fish production in Odisha using seasonal ARIMA model. *National Academy Science Letters*, *40*(6), 393-397.

- Raman, R. K., Mohanty, S. K., Bhatta, K. S., Karna, S. K., Sahoo, A. K., Mohanty, B. P., & Das, B. K. (2018). Time series forecasting model for fisheries in Chilika lagoon (a Ramsar site, 1981), Odisha, India: a case study. *Wetlands ecology and management*, *26*(4), 677-687.
- Raman, R. K., Suresh, V. R., Mohanty, S. K., Bhatta, K. S., Karna, S. K., Mohanty, B. P., & Das, B. K. (2019). Influence of seasonality, salinity and temperature on catch trend of Pena
- eus indicus H. Milne-Edwards, 1837 in a coastal lagoon, India. *Indian Journal of Fisheries*, *66*(1).
- Raman, Rohan Kumar, Malay Naskar, S. K. Sahu, Ganesh Chandra, and B. K. Das. "A Multi-species modelling approach to assess the influence of hydrological regime on commercial fisheries in a tropical river–estuary system." *Regional Studies in Marine Science* 34 (2020): 101035.