

1. Name: Dr. B. MANJUNATHA

2. Designation: Scientist-B

3. Affiliation: Muga Eri Silkworm Seed Organization (MESSO), Central Silk Board, Ministry of Textiles, Govt. of India, Khanapara, Guwahati, Assam, India, Pin-781022.

4. Contact no.: 9482176980

5. E-mail: manjunathab6331.csb@gov.in

manju777dsg@gmail.com



6. Education:

Degree	Board/ University	Year	Percentage
X	Karnataka Secondary Education Examination Board	2012	84.64%
XII	Department of Pre-University Education, Karnataka	2014	85.50%
B.Sc. (Sericulture)	University of Agricultural Sciences, Bengaluru, Karnataka	2014-2018	88.60%
M.Sc. (Agricultural Statistics)	ICAR-Indian Agricultural Research Institute, New Delhi	2018-2020	82.40%
Ph.D. (Agricultural Statistics)	ICAR-Indian Agricultural Research Institute, New Delhi	2021-2025	85.80%

7. Area of Specialization: Agricultural Statistics

8. Research Experience:

- M.Sc. Thesis: "Construction of Structurally Incomplete Row- Column (SIRC) designs"
- Ph.D. Thesis: "A Study on Copula Approach for Time Series Forecasting"
- Junior Research Fellow on the project 'Development of AI Model and Web Solution for Prediction of Crop Yield'.

9. Awards and Scholarships

- Awarded UAS Gold Medal for highest OGPA in B.Sc. (Sericulture).
- Qualified UGC-NET (2022) in Population Studies, eligible for the position of Assistant Professor.
- Qualified ICAR-NET (2021) in Agricultural Statistics, eligible for the position of Assistant Professor.
- "ICAR Senior Research Fellowship" for pursuing Ph.D. in Agricultural Statistics from ICAR-IARI (2021-2024).
- "ICAR-IARI Junior Research Fellowship" for pursuing M.Sc. in Agricultural Statistics from ICAR-IARI (2018-2020).

10. Publications

- Total Research Papers Published: 14
- Books Authored: 1
- Book Chapters: 7
- Popular Articles: 11

11. Major Research Papers

- Vine copula-based optimal multivariate deep learning model with genetic algorithm

optimization for time series forecasting. *Journal of Statistical Computation and Simulation*, 2026. <https://doi.org/10.1080/00949655.2025.2610733>

- A Hybrid ARIMA-GARCH type Copula Approach for Agricultural Price Forecasting, *Statistics and Applications*, 2025.
- WaveDeepCrop: wavelet enhanced deep learning framework for noise-resilient crop yield forecasting. *Proceedings of the Indian National Science Academy*, 2025. doi: [10.1007/s43538-025-00581-1](https://doi.org/10.1007/s43538-025-00581-1)
- Trivariate-ARMA–GARCH type–Vine Copula Model for Time Series Forecasting, *Communications in Statistics-Simulation and Computation*, 2024. <https://doi.org/10.1080/03610918.2024.2433495>
- Construction of Structurally Incomplete Row-Column Designs with Pairwise Balance and/or Variance Balance Property, *International Journal of Agricultural and Statistical Sciences*, 2024. doi: [10.59467/IJASS.2024.20.599](https://doi.org/10.59467/IJASS.2024.20.599)