

FACULTY PROFILE

Full Name:Dr. Pavana Kumar S.T

Designation: Assistant Professor (Statistics)

Department/School: School of Social Sciences

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Area of Specialization: Applied Statistics

Research Interests: Machine learning, Change Point Estimation, Multivariate Analysis



Educational Qualifications

Degree	Subject	University/Institute
Ph.D.	Agricultural Statistics	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal
M.Sc.	Agricultural Statistics	University of Agricultural Sciences, Dharwad, Karnataka
B.Sc.	Agriculture	University of Agricultural Sciences, Bangalore, Karnataka
Postdoctoral Experience	Statistics and Machine Learning	Prince of Songkla University, Hat Yai, Thailand

Professional Experience

Position	Organization	Duration
Assistant Professor (Statistics)	CPGS-AS, Central Agricultural University (Imphal), Umiam, Meghalaya	01.01.2026 – till date
Assistant Professor (Statistics)	College of Community Science, CAU (Imphal), Tura, Meghalaya	04.10.2018 to 31.12.2025
Data Analytics Manager	Kamatan Farm Tech Pvt Ltd, Bangalore	26.02.2018 to 01.10.2018
Business Analyst	Agreen Tech Pvt. Ltd, Bangalore	07.12.2016 to 25.02.2018

Research Projects:

Title	Funding Agency	Duration	Budget (In Lakhs)	Role	Status
Linkage between Agriculture, Socio-Economic Status and Nutritional Status of Farm families in West Garo Hills of Meghalaya	CAU, Imphal	2020-2022	2.08	PI	Completed
DUS characterization and improvement of Comilla cotton through participatory varietal selection implementation in Garo Hills of Meghalaya	ICAR-CICR, Nagpur	2023-2024	18.2	CO-PI	Completed
Comilla cotton-based healthcare products and enterprise development	ICAR-CICR, Nagpur	2023-2024	25.00	CO-PI	Completed
Improvement of Comilla Cotton through participatory varietal selection	ICAR-CICR, Nagpur	2024-2025	16.90	CO-PI	Completed
Comilla cotton-based healthcare products and enterprise development	ICAR-CICR, Nagpur	2024-2025	15.50	CO-PI	Completed
Psycho Social Stressors among Single Mothers in Meghalaya	ICSSR, New Delhi	2025-26	8.50	CO-PI	Ongoing

Selected Publications:

1. Pavan Kumar, S.T., Chotikarn, P., de Oliveira Júnior, J.F., & Lalremsang, P. (2025). Bayesian change point estimation and evaluation of machine learning models for multi-scale SPI prediction for Assam-Meghalaya region in North-Eastern India. *International Journal of Climatology*. Impact Factor: 2.8
2. Pavan Kumar, S.T., Chotikarn, P., Khampeera, A., & Sinutok, S. (2025). Structural breakpoints and trend dynamics in Indian sugarcane agrodata and prices. *Earth Systems and Environment*. Impact Factor: 4.7
3. S.T., Pavan Kumar, Lahiri, B., & Alvarado, R. (2022). Multiple change point estimation of trends in Covid-19 infections and deaths in India as compared with WHO regions. *Spatial Statistics*, 49, 100538. Impact Factor: 2.5
4. Alvarado, R., Cuesta, L., Kumar, P., Rehman, A., Murshed, M., Işık, C., Vega, N., Ochoa-Moreno, S., & Tillaguango, B. (2022). Impact of natural resources on economic progress: Evidence for trading blocs in Latin America using non-linear econometric methods. *Resources Policy*, 79, 102908. Impact Factor : 10.2 (2023)
5. S.T., Pavan Kumar, & Lahiri, B. (2023). Conditional selection of multifactor evidence for the levels of anaemia among women of reproductive age group. *Evaluation and Program Planning*, 100, 102344. Impact Factor: 2.0
6. Pavan Kumar, S.T., Lahiri, B., Nageswararao, M.M., Alvarado, R., & Sangma, S.N. (2023). Trend analysis and changepoint detection of monthly, seasonal and annual climatic parameters in the Garo Hills of Northeast India. *Ecological Informatics*, 75, 102104. Impact Factor: 7.3
7. Patra, N.K., Rilung, T., Das, L., & Pavan Kumar, S.T. (2024). Assessing climate change and its impact on kiwi production in the Eastern Himalayan Region of India. *Theoretical and Applied Climatology*. Impact Factor: 2.7
8. Lahiri, B., Anurag, T.S., Borah, S., Marak, N.R., Pavan Kumar, S.T., et al. (2024). Designing a user-centric mobile-based agro advisory system for sustainable development. *Information Technology for Development*. Impact Factor: 6.4
9. Kencharaddi, H., Ramkrushna, G.I., Pavan Kumar, S.T., et al. (2024). Present status and prospects on conservation and promotion of Comilla cotton. *Genetic Resources and Crop Evolution*. Impact Factor: 1.6
10. Pavan Kumar, S.T., Sangma, S.N., Devi, C.B., Lahiri, B., et al. (2024). Evaluating food security and nutritional pathways of rural farm families: Empirical evidence from Northeast India. *Evaluation and Program Planning*. Impact Factor: 2.0 [cite: 15]
11. Lahiri, B., Kurmi, R.K., Singh, S.K., Ghosh, A., Pal, P., Pavan Kumar, S.T., & Nirmalkar, C. (2024). Determinants of digitised farm information outreach in aquaculture. *Journal of the Knowledge Economy*. Impact Factor: 4.0

Courses Taught

Level	Courses taught
Under Graduation	Elementary Statistics, Agricultural Informatics, ICT, Elementary Mathematics
Postgraduation	Research Methodology, Statistical Methods, Experimental Design, Data Analysis
Doctoral Program	Data Analysis using Statistical Packages, Applied Regression Analysis

Student Guidance

M. Sc.: 20 (Member)

Ph.D.: 02 (Member)

Workshops/Training Organized

Sl. No	Training Topic	Duration (Days)
1	Use of MS-Excel for Data Summarization and Storage	03
2	Data Analysis Using R	03
3	Research Methodology and Data Analysis using SPSS	02
4	Experimental Data Analysis with R Programming	10

Digital Identifiers

Google Scholar: <https://scholar.google.com/citations?user=EN3GIIdIAAAAJ>

ORCID: <https://orcid.org/0000-0003-4645-9362>

ResearchGate: <https://www.researchgate.net/profile/Pavan-S-T>

Scopus ID: 57193664860