



Dr. Shital Saha

Assistant Professor

Department of Mathematics

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1. ABOUT

Dr. Shital Saha is an Assistant Professor at the Department of Mathematics, School of Engineering, Dayananda Sagar University, Karnataka, India. He completed his Ph.D. degree in Statistics at the Department of Mathematics, National Institute of Technology Rourkela, Odisha, India in 2025. He earned his Master of Science (M.Sc.) in Mathematics from University of Gour Banga, Malda, and his Bachelor's degree (B.Sc.) in Mathematics from Balurghat College, Balurghat.

His research interests are Statistical Information Theory, Copula Theory, Reliability Theory, Statistical Inference and Applied Statistics in the field of Probability & Statistics. He has published 10 research articles (SCI-Indexed) in different reputed international journals. He serves as a reviewer for several international Journals. Additionally, he has qualified the CSIR-UGC NET (LS & JRF), WBSET, CTET (Paper I & II) and IIT-JAM.

2. RESEARCH INTERESTS

- Statistical Information Theory
- Statistical Inference
- Reliability Theory
- Applied Statistics
- Copula Theory
- Applied Probability

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Statistics — National Institute of Technology Rourkela, 2025
- M.Sc in Mathematics — University of Gour Banga, 2015
- B.Sc (Hons.) in Mathematics — Balurghat College, 2013

4. PROFESSIONAL EXPERIENCE

- Assistant Professor — Dayananda Sagar University, 1st August, 2025 - **Till date**
- TGT Maths Teacher — Kendriya Vidyalaya AFS Bagdogra, 1st April, 2019 - 7th September, 2019

5. RESEARCH HIGHLIGHTS

- Publications: 10 (Q1-4, Q2-4, Q3-2, SCIE)
- Awards/Recognitions:
 - CSIR-UGC NET in with JRF in Dec., 2019
 - WBSET-2020
 - CTET (Paper I & II) in Dec., 2019
 - IIT-JAM in 2013.
- Academic/Conference Roles:
 - **Invited Talk** on International Conference on Recent Advances in Applied Mathematics (RAAM 2026), held at IIT Hyderabad, during 6-8th July 2026.
 - Short-Term Research visit and **Invited Talk** in Lecture Series at ISI Chennai on 2nd February to 6th February, 2026.
- Reviewer/Editorial Activities:

I have acted as a reviewer in various international Journals of Probability & Statistics few highlighted below.

 - Methodology and Computing in Applied Probability
 - Scientific Reports
 - WIREs Computational Statistics
 - Fluctuation and Noise Letters
 - São Paulo Journal of Mathematical Sciences
 - Applied Mathematics-A Journal of Chinese Universities
 - Contemporary mathematics
 - Asian Journal of Probability and Statistics
 - Asian Research Journal of Mathematics
 - American journal of applied mathematics

6. SELECTED PUBLICATIONS

1. Shital Saha, Suchandan Kayal & N. Balakrishnan, (2026) Fractional-order generalized inaccuracy measures based on copula and associated properties and applications. (Accepted in REVSTAT-Statistical Journal)
2. Shital Saha & Suchandan Kayal, (2026) Copula-based extropy measures, properties and dependence in bivariate distributions. Communication in Statistics–Theory and Methods, 55:1, 189-216. DOI: 10.1080/03610926.2025.2491720.
3. Omid Kharazmi, Shital Saha & Suchandan Kayal, (2025) Burg entropy in terms of survival function and its application in model selection. Methodology and Computing in Applied Probability, 27:4, 1-20. DOI: 10.1007/s11009-025-10208-z
4. Shital Saha & Suchandan Kayal, (2025) Weighted past and paired dynamic varentropy measures, their properties, usefulness and inferences. Journal of Statistical computation and Simulation, 95:7, 1487-1519. DOI: 10.1080/00949655.2025.2458718
5. Shital Saha & Suchandan Kayal, (2025) Fractional cumulative past inaccuracy measure, its dynamic version and applications in survival analysis. Physica D: Nonlinear Phenomena, 473, 134545. DOI:10.1016/j.physd.2025.134545
6. Shital Saha, Suchandan Kayal & N. Balakrishnan (2025) Some generalized information and divergence

generating functions: properties, estimation, validation and applications. Probability in the Engineering and Informational Sciences, 39:3 397-430. DOI: 10.1017/S0269964825000038

7. Shital Saha & Suchandan Kayal, (2024) General weighted information and relative information generating functions with properties. IEEE Transactions on Information Theory, 70:8, 5498-5515. DOI: 10.1109/TIT.2024.3409371

8. Shital Saha & Suchandan Kayal, (2024) Weighted (residual) varentropy and its applications, Journal of Computational and Applied Mathematics, 442, 115710. DOI: 10.1016/j.cam.2023.115710

9. Shital Saha, Suchandan Kayal & N. Balakrishnan (2024) Different informational characteristics of cubic transmuted distributions. Brazilian Journal of Probability and Statistics, 38:2, 193-214. DOI: 10.1214/24-BJPS600

10. Shital Saha & Suchandan Kayal, (2023) Extended fractional cumulative past and paired ϕ -entropy measures. Physica A: Statistical Mechanics and its Applications, 614, 128552. DOI: 10.1016/j.physa.2023.128552

11. Shital Saha & Suchandan Kayal, Multivariate Rényi inaccuracy measures based on copulas: properties and application. (Under Review)

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=CGKSTQAAAAJ&hl=en&oi=ao>
- ORCID: <https://orcid.org/0009-0002-8512-5891>
- Scopus: 57831470300
- ResearchGate: https://www.researchgate.net/profile/Shital-Saha?ev=hdr_xprf

8. CONTACT

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