

FACULTY MEMBERS' ACADEMIC PROFILE

1. **Name of the Faculty member:** SUBRATA RANA
2. **Designation:** Assistant Professor in Statistics (W.B.E.S.)
3. **Qualification:** Ph.D.
4. **Specialization:** Bio-statistics
5. **E-mail address:** ranasubrata@gmail.com
6. **Date of Joining in W.B.E.S.:** 10.09.2014
7. **Date of Joining in this College:** 10.09.2014
8. **Total Teaching experience in College level:** 8+years
9. **Research interests:** Missing data, Categorical data analysis.
10. **Title of thesis (Ph.D.) with year:** Analysis of Multivariate Ordinal Data under some Complex Models.
11. **Research guidance:** Nil
12. **Research Projects (Completed and ongoing):** Nil
13. **List of publications:**



**A) Published papers in Journals:**

- i) “A study on the performance of various predictive models based on artificial neural network for backward metal flow forming process”, P. Banerjee, R. Laha, M. K. Dikshit, N. Hui, **S. Rana**, V. K. Pathak, K. Saxena, C. Prakash, D. Buddhi, *International Journal on Interactive Design and Manufacturing*, **2022**, DOI: 10.1007/s12008-022-01079-6, [ISSN 1955-2513 (print) 1955-2505 (web); **IF: 2.639**].
- ii) “Analysis of longitudinal ordinal data using semiparametric mixed model under missingness”. **Subrata Rana**, *Communications in Statistics – Simulation and Computation*, **2020**, 1-14 [ISSN 0361-0918 (print) 1532-4141 (web); **IF: 0.651**].
- iii) “Analysis of ordinal longitudinal data under nonignorable missingness and misreporting: An application to Alzheimer’s disease study”, **Subrata Rana**, Surupa Roy and Kalyan Das, *Journal of Multivariate Analysis*, July, **2018**, 166, 62-77 [ISSN 0047-259X; **IF: 1.009**].
- iv) “Evaluation on Alzheimer’s disease progression based on clinical dementia rating scale with missing responses and covariates”, Kalyan Das, **Subrata Rana** and Surupa Roy, *Journal of Biopharmaceutical Statistics*, November, **2017**, doi: 10.1080/10543406.2017.1402780 [ISSN 1054-3406; **IF: 0.994**]
- v) “Clustered data analysis under miscategorized ordinal outcomes and missing covariates”, Surupa Roy, **Subrata Rana** and Kalyan Das, *Statistics in Medicine*, August, **2016**, 35, 3131-3152 [ISSN 1097-0258; **IF: 1.861**]

- vi) “On analyzing ordinal data when responses and covariates are both missing at random”, **Subrata Rana**, Surupa Roy and Kalyan Das, *Statistical Methods in Medical Research*, August, **2016**, 25(4), 1564-1578 [ISSN 0962-2802; **IF: 4.701**]

**14. Membership of Learned Societies/ Editorial Boards, etc.:** Life member of Calcutta Statistical Association.

**15. Patents:** Nil

**16. Awards:** Nil

**17. Other notable activities:** Served as **Nodal Officer** of Nadia district in the sample survey on ‘**Old age, Widow and Disability Pension**’, conducted by the **Government of West Bengal** during 2016-17.

**18. A) Participation in Seminars/Symposia/Conferences/Workshops:**

1. **Presented a talk** entitled “*Analyzing longitudinal ordinal data when responses and covariates are both missing*” in the **National level Seminar ‘STATQUEST 2016’** held in the Department of Statistics, University of Calcutta on **18<sup>th</sup> March, 2016**.
2. **Presented a paper** entitled “*Clustered data analysis under miscategorized ordinal outcomes and missing covariates*” in the **International level Two day Seminar** on ‘*Probability and Statistics*’ held in the Department of Statistics, West Bengal State University on **28<sup>th</sup> -29<sup>th</sup> March, 2016**.
3. Participated in the **Lecture Series** on ‘*Probability and Statistics*’ held at the Department of Statistics, Visva-Bharati University on **15<sup>th</sup> -16<sup>th</sup> July, 2016**.
4. **Presented a paper** entitled “*Analysis of Ordinal Longitudinal Data Under Nonignorable Missingness and Misreporting*” in the **Tenth International Triennial Calcutta Symposium on Probability and Statistics** held in the Department of Statistics, University of Calcutta on **29<sup>th</sup> December, 2018**.
5. **Presented paper** entitled “*Ordinal Family Data Analysis in Presence of Measurement Errors*” in the **Fifth Regional Science and Technology Congress** organized by the Department of Science and Technology and Biotechnology, Government of West Bengal and West Bengal State University on **20<sup>th</sup> January, 2023**.

**B) Participation in OP/RC:**

1. Participated in the **37th Orientation Programme** at UGC HRDC, Kumaun University, Nainital from **05<sup>th</sup> February, 2018 to 07<sup>th</sup> March, 2018**.
2. Participated in the **Refresher Course in Research Methodology** at UGC HRDC, Utkal University, Bhubaneswar from **11<sup>th</sup> September, 2018 to 01<sup>st</sup> October, 2018**.
3. Participated in the **Refresher Course on Mathematics & Statistics (Pure & Applied)** at UGC HRDC, Gauhati University, Guwahati from **24<sup>th</sup> January, 2022 to 07<sup>th</sup> February, 2022**.

4. Participated in the **Instructional Schools for Teachers (IST) – Advanced Topics in Statistical Learning (2022)** at Indian Statistical Institute (ISI) Kolkata from *11<sup>th</sup> July, 2022 to 23<sup>rd</sup> July, 2022.*