Girish Aradhye-Curriculum Vitae

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Academic Qualifications

- Doctor of Philosophy Degree in Statistics (thesis submitted) - Department of Statistics, Central University of Rajasthan.
- Junior Research Fellowship for pursuing doctoral research (2020-2022).
- Qualified State Eligibility Test for Assistant Professor in Statistics approved by University Grants Commission, Govt of India (2019).
- Qualified Graduate Aptitude Test in Engineering (GATE) in Statistics with All India Rank 205 (2019).
- Master of Science Degree in Statistics (2015-2017) - Department of Statistics, Solapur University, Solapur, Maharashtra, India.
- Bachelor of Science in Statistics (2012-2015) - Department of Statistics, Sangameshwar College, Solapur, Maharashtra, India.

Present and Previous Employment

- 2021-present: Research Scholar, Department of Statistics, Central University of Rajasthan.
- 2020-2022: Junior Research Fellow, Department of Statistics, Central University of Rajasthan.
- 2019-2020: Assistant Professor (Clock Hour Basis) - Department of Statistics, Sangameshwar College, Solapur, Maharashtra, India.
- 2017-2019: Assistant Professor (full time on contract) - Department of Statistics, Solapur University, Solapur, Maharashtra, India.

Professional Activities and membership

- 2021-2023: Coordinator, Research Club, Department of Statistics, Central University of Rajasthan.
  *As a coordinator of the research club, I was actively involved in the organization of seminars, conferences, guest-lectures on the department level which are beneficial for the research scholars. My notable contributions are: Actively participated in the organization of Fulbright Specialist Program on "Multivariate Analysis for Data Science and its quantitative aspects" in collaboration with United States-India Educational Foundation.
- Life Member of Indian Society for Probability and Statistics **(LM/47/1471/2021)**

- E-Student Member: Royal Statistical Society, London, UK.
- Student Member of Institute of Mathematical Statistics (**ID:** 36865)

Awards and Recognitions

- Consolation prize in “On the Spot Essay Writing Competition " for PG students of Indian Universities conducted by Ministry of Statistics and Programme Implementation (MoSPI), Govt. Of India. Felicitated by Director, Indian Statistical Institute, Kolkata in presence of Hon’ble Former President of India Shri. Pranav Mukharji, Dr. TCA Anant (Former Chief Statistician Of India), Dr. Radha Binod Barman (Former Chairman, National Statistical Commission).
- Dr. A. M. Mathai Cash Prize for the Best Research Paper Award-2021 by the Indian Society for Probability and Statistics (ISPS) in the 41st Annual Convention of the Indian Society for Probability and Statistics (ISPS) on 13/03/2022.
- Selected as a speaker at Royal Statistical Society, London YSS & Leeds/Bradford Local Group: Rapid Fire Showcase presentation on Composite Lognormal - T regression models with varying threshold and its insurance application on June 29, 2022.

Research Interests

- Composite models and mixed models
- Distribution theory
- Computational statistics
- Actuarial modeling
- Copulas
- Hybrid neural networks -regression models (CANN models)

Publications and papers under review

1. Deepesh Bhati1, Girish Aradhye *, and D.V.S. Sastry 2. On a new family of composite models with generalized log-Moyal tail and its actuarial application. (Accepted: FILOMAT)

2. Girish Aradhye 1 , George Tzougas, and Deepesh Bhati * . EM estimation for the mixed Pareto regression model for claim severities. (Published: Communications in Statistics – Theory and Methods)
3. Girish Aradhye 1, Deepesh Bhati*, and George Tzougas. A novel M-Lognormal- Burr regression model with varying threshold for modeling heavy-tailed claim severity data. (Published: Journal of Applied Statistics)
4. Deepesh Bhati 1, Buddepu Pavan, and Girish Aradhye*. On A New Heavy-Tailed Mixed Pareto-Weibull Distribution: Its Parametric Regression Model and Insurance Applications. (Published Annals of Data Science, Springer)
5. Girish Aradhye1, George Tzougas, and Deepesh Bhati*. A Copula based bivariate composite model for modeling claim costs. (Published: Mathematics)
6. Girish Aradhye*, George Tzougas 1, and Deepesh Bhati 2. EM estimation for the Bivariate Mixed Exponential Regression Models with varying dispersion and its neural network based enhancement. (Under Review)
7. Girish Aradhye 1, Deepesh Bhati*, and Enrique Calderin-Ojeda 2. On a new family of composite regression models with covariate dependent threshold via tail index parameter. (Under review)
8. Deepesh Bhati 1 and Girish Aradhye *. An EM type estimation for a novel mixed composite models. (Under review)
9. Girish Aradhye 1, George Tzougas* and Deepesh Bhati 2 . Multivariate mixed exponential regression Models integrating covariates in the mean, dispersion, and dependence Parameters: Statistical inference and insurance applications. (Under review: Computational Statistics and Data Analysis)

Note:- 1: First Author, 2: Second Author and *: Corresponding Author.

- Google Scholar: https://bitly.ws/3hVXJ
- Scopus ID: 57847963900: https://www.scopus.com/authid/detail.uri?authorId=57847963900

Workshop/Conferences and invited talks

1. Program on "Problem Solving using Design of Experiments-2018" at Indian Statistical Institute, Bangalore, India.

2. Contributory Talk on "Modeling Insurance Claims with Composite Generalized Log Moyal Distribution" at Fifth International webinar on "Recent Trends in Statistical Theory and Applications-2021 (WSTA-2021)" organized by Department of Statistics, University of Kerala in conjunction with Indian Society for Probability and Statistics (ISPS) and Kerala Statistics Association (KSA), India (2 July 2021).

3. Contributory Talk on "On A New Heavy-Tailed Pareto-Weibull Distribution: Properties and Its Applications" at International Conference On Recent Advances in Statistics (ICRAS-2021) organized by Department of Statistics, SGM College, Karad, MS, India (11-12 October 2021).

4. Contributory Talk on "A New Mode-Matching Composite Regression Model and Its Application to Motor Vehicle Insurance Loss Dataset" at International Conference on STATISTICS AND DATA SCIENCE: Theory and Practice for Progress and Prosperity (ICSDS-2021) jointly organized by Indian Society for Probability and Statistics (ISPS) and Osmania University, Hyderabad, India (10-13 March 2022).

5. Royal Statistical Society, London YSS & Leeds/Bradford Local Group: Rapid Fire Showcase presentation on Composite Lognormal - T regression models with varying threshold and its insurance application on June 29, 2022.

6. Presented a paper entitled "On a new Copula based family of Bivariate Composite Model and its insurance application" at Young Statisticians' Meet (YSM 2022), Royal Statistical Society London, UK (two-day international conference) (04-05 August 2022).

7. Contributory Talk on "An EM type estimation for a novel mixed composite models" at International Conference on STATISTICS, PROBABILITY, DATA SCIENCE AND RELATED AREAS (ICSPDS-2023) jointly organized by Indian Society for Probability and Statistics (ISPS) and Cochin University of Science and Technology, Kerala India(04-06 Jan, 2023).

M.Sc. Projects Guided

- A case study of Gestational Diabetes patients in Solapur City.
- EM estimation for Bivariate Mixed Gamma Regression Model with varying dispersion.
- On A New Heavy-Tailed Mixed Pareto-Weibull Distribution: Its Parametric Regression Model and Insurance Applications. (Published)
- Modeling insurance losses using Composite H-GB2 models. (Under Review)
- Neural Network based enhancement of bell regression model for count frequency data.
- Composite Lognormal-contaminated Lomax distribution with an application to insurance loss data.