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Personal Information

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Gender: Male

Date of Birth: 09-12-1991



About me

An enthusiastic and methodical researcher in the area of Statistics. Organized and fast learner with a broad and acute interest in Applied Statistics and research projects that is of good use to society. Enjoy teaching and imparting the knowledge to students and lend an attentive ear to curious queries – while also trying to clarify the doubts and make the concepts as clear as possible in simple words.

Languages Known

- English
- Malayalam

Curriculum Vitae

Work experience

- 2023 – Present Assistant Professor
Department of Statistics
GPM Govt. College, Manjeswaram
- 2021 – 2023 Assistant Professor (2 Years)
Department of Statistics
Nirmala College, Muvattupuzha
- 2018–Present Research Scholar (Part Time)
Cochin University of Science
and Technology

Education

- 2018-Present PhD in Statistics
Cochin University of Science and
Technology, Kochi
- 2016-2017 M.Phil. in Statistics
University of Kerala, Trivandrum
- 2013-2015 M.Sc. in Statistics
Nirmala College, Muvattupuzha
- 2010-2013 B.Sc. in Mathematics
Nirmala College, Muvattupuzha

Achievements

- 2020 Google Educator Level – 1 Exam
Teacher Center, Google for
Education
- 2017 National Eligibility Test (NET) in
Mathematical Science
University Grants Commission
(UGC)
- 2015 Prof. Daneesamma Joseph
Endowment Award – Top Scorer in
MSc. Statistics (2014 – 15)
Nirmala College, Muvattupuzha



Membership in Professional bodies

Indian Society for Probability and Statistics (ISPS)

Kerala Statistical Association (KSA)



Fellowships Received

2018 Maulana Azad National Fellowship (MANF) For Minority Students
Five year fellowship offered to Minority Ph. D. students, sanctioned by UGC.



Areas of Interest

- Distribution Theory
- Design of Experiments
- Statistical Inference
- Multivariate Analysis
- Machine Learning
- Artificial Intelligence
- Data Visualization
- Bayesian Inference



Paper Published

- Rajesh, G., Joseph, L., & Jacob, T. M. (2023). Smoothed kernel estimation of bivariate residual entropy function. *Communications in Statistics-Simulation and Computation*, 52(9), 4065-4074.



Paper Presentations

- December 2019 Smoothed Kernel Estimation of Bivariate Residual Entropy Function
Fifth International Conference on Statistics for Twenty-First Century
Department of Statistics, University of Kerala.
- June 2017 On Some Properties of Generalized Lomax Distribution
National Seminar on Recent Trends in Statistical Theory and Applications
Department of Statistics, University of Kerala.



Webinars/Seminars/Workshops Attended

- July 2020 **National Faculty Development Programme on Time Series and Panel Data Analysis**
Organized by the Ministry of Human Resource Development, Teaching Learning Centre, Ramanujan College, University of Delhi and Indian Accounting Association, NCR Chapter.
- July 2020 **Importance of Data Science in AI and ML**
Organized by the Department of computer science, MES Ponnani College in collaboration with Kerala State Higher Education Council (KSHEC).
- December 2017 **Third International Conference on Statistics for Twenty-First Century**
Organized by Department of Statistics, University of Kerala, Trivandrum.
- December 2017 **International Workshop on Recent Trends in Distribution Theory and its Related Areas**
Organized by the Department of Statistics, University of Kerala, Trivandrum.
- October 2017 **National Workshop on Statistical Methods for Data Analysis Using R**
Organized by the Department of Statistics, University of Kerala, Trivandrum.
- December 2016 **Second International Conference on Statistics for Twenty-First Century**
Organized by Department of Statistics, University of Kerala, Trivandrum.
- November 2016 **National Workshop on Statistical Computing**
Organized by the Department of Statistics, University of Kerala, Trivandrum.
- January 2015 **Statistical Data Analysis Using R**
UGC Sponsored National Level Workshop and Organized by the Department of Statistics, B.C.M College, Kottayam.



Freelance Analytics/ Consultancy Services

1. Assisted PhD, M.Phil. and postgraduate students at the University of Kerala for **analyzing data** concerning their dissertation theses. The students were from multi-disciplines as follows:

Bioinformatics – 2

Management Studies - 3

Psychology – 2

2. **Analyzed and interpreted Bio-medical data** for a medical practitioner in Abu Dhabi.
3. **Offered statistical support in analyzing financial data** for a client based in New Zealand.
4. **Cleaned and wrangled data for a Climate Science project** for a group of researchers based in Tamil Nadu.
5. **Analysed data associated to a socio-economic project** titled
" A comparative study on the psychological well being and stress levels of Pakalveedu inmates and other elderly in Ernakulam district"
and came to an interesting conclusion that participants at the facility fared better than those admitted to old – age homes in the region.

Projects/Dissertation

- | | |
|------|---|
| 2017 | On Lomax Distribution and Its Related Models
M. Phil Dissertation
Department of Statistics, University of Kerala |
| 2015 | A Statistical Study on Myopia
M.Sc. Project
Department of statistics, Nirmala College, Muvattupuzha |



Massive Open Online Courses (MOOCs) Completed

- **Artificial Intelligence Search Methods For Problem Solving (Ongoing)**
The **NPTEL** course is about emerging Artificial Intelligence technologies like virtual and augmented reality, and wearable devices; and their applications in healthcare and cyber-security.
- **Practical Machine Learning with Tensorflow (Ongoing)**
This **NPTEL** course introduces basic concepts related to applied Machine Learning.
- **Data Science: R Basics**
A course on foundations of R programming and syntax that helps to wrangle, analyse and visualize data using R – offered by **HarvardX**.
- **Statistics for International Business**
Offered by the **University of London**, the course introduces core areas of statistics that are necessary to succeed in international business.
- **Google Cloud Platform Fundamentals: Core Infrastructure**
The course, offered by **Google Cloud Training**, covers important concepts and terminology for working with Google Cloud Platform (GCP).
- **Understanding and Visualizing Data with Python**
The course helps students to identify different types of data and learn how to visualize, analyze, and interpret data using Python.
- **Bayesian Statistics: From concept to Data Analysis**
The edutainment by Prof. Herbert Lee, **University of California**, throws light on concepts of the Bayesian approach.
- **Basic Data Descriptors, Statistical Distributions and Application to Business Decisions**
The course, by **Rice University**, deals with descriptive measures of data and various statistical distributions essential for effective business decisions.
- **WHO: Operational Planning Guidelines and COVID-19 Partners Platform to Support Country Preparedness and Response**
The course, offered by Open WHO, begins with the context for the need for a coordinated global response plan to the COVID-19 outbreak.



Domains of Expertise

- **Programming Languages**
I consider myself to possess Intermediate knowledge of the programming languages – **C++** and **Python**. Python is more in use today and is gaining popularity owing to its huge applications in Data Science.
- **Mathematical Softwares**
I am quite familiar with programming softwares like **Mathematica** and **MATLAB**. Both these softwares, if mastered, will aid and be efficient in high computation and simulation exercises.
- **Statistical Softwares**
I am proficient in the Statistical softwares **R**, **SPSS (Statistical Package for the Social Sciences)**, **SAS (Statistical Analysis System)**, **Minitab** and **Tableau**.
- **Econometric Softwares**
I was introduced to the "econometric" softwares **E- Views** and **Stata** during the 7 – day National Faculty Development Programme on Time Series and Panel Data Analysis, and have since then tried to build upon the base to these softwares laid by the programme.



Hobbies

- Playing cricket
- Travelling
- Reading
- Music
- Volunteering
- Strategic Gaming
- Gardening

+ Skills

- **ICTs (Information and Communication Technologies)**
I have qualified the **Google Educator Level – I exam**, which assesses and validates one's proficiency in using Google for Education products. I am confident in handling ICTs like **Google Classroom, Moodle, Zoom, Google Meet** etc. and can effectively use these tools for online education.
- **Data Analytics**
Analytics is one of my key strengths as a statistician. I have done Statistical Analysis as a freelance Data Analyst for various socio-economic projects. I have analyzed data using softwares like R and SPSS and helped firms and clients arrive at optimized decisions and plans based on the analyses.
- **Research**
I was greatly inspired by my teachers during the Master's programme to take up a career in research. It was their motivation that ignited the passion for research in me. I hope to do good research and be involved in projects that are beneficial to mankind.
- **Problem Solving**
I have great taste for problem-solving, which is one of the reasons I was drawn to Statistics. I saw a lot of opportunities for problem-solving in this domain of knowledge. And I believe that the quality helped me qualify a national level competitive exam like NET in Mathematical Sciences.