

A JABARALI

Assistant Professor

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🌐 <https://mcc.edu.in/statistics-faculty-aided/>

EDUCATION

- 2012 – 2015 **Doctor of Philosophy in Statistics**, Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli.
- 2011 – 2012 **Master of Philosophy in Statistics**, Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli.
- 2009 – 2011 **Master of Science in Statistics and Computer Applications**, Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli.
- 2006 – 2009 **Bachelor of Science in Mathematics**, Department of Mathematics, Sadakathullah Appa College, Palayamkottai.

WORK EXPERIENCE

- 2016 – Present **Assistant Professor**, Department of Statistics, Madras Christian College, East Tambaram, Chennai.
- 2015 – 2016 **Assistant Professor**, Department of Statistics, G. Venkatasamy Naidu College, Kovil Patti, Tuticorin.

RESEARCH INTERESTS

- **Statistical Modeling**
Scientific research problem to be addressed based on statistical modeling
- **Distribution Theory**
Theoretical framework of Probability distribution to be developed based on the real-life scenario
- **Social Issues**
Social relevance and behavioral study of current national issues to be addressed in statistical aspects.

PROJECT(3)

- On-going **Principal Investigator**, Consultancy Project, 2025
- **Parental Perspectives on the Establishment of a New CBSE/ICSE Residential School in Villupuram funded by Sri Jayeandra Saraswathy Vidyaalayaa Diamond Jubilee Matriculation Higher Secondary School, Villupuram a distinguished institution under the Sri Jayeandra Saraswathy Swamigal Educational, Health & Charitable Trust and part of the Mahalakshmi Groups**
- Completed **Co-Principal Investigator**, Vada Chennai Valarchi Thittam, 2023

- The Chennai Metropolitan Development Authority has approved the project titled Socio-Economic-Psychological Wellness Survey and Focus Group Discussion Conducted in North Chennai as a part of the Vada Chennai Valarchi Thittam.
- Completed Principal Investigator, Seed Money for Micro Project / Pilot Study, 2021
- Impact of the COVID-19 Pandemic on Depression, Anxiety, Stress of Young Adolescence - A Case study for the students in Madras Christian College, East Tambaram, Chennai funded by Research and Development, Madras Christian College for academic year of 2020-2021.

HONORS & AWARDS

- Research Financial Support from Special Assistance Program at the level of DRS-I under University Grants Commission, New Delhi during 2012-2015.

PUBLICATIONS: Journals(15)

- The Interplay of Mindfulness, Interoception, and Dual Emotions in Enhancing Psychological Well-being – Development of Healthy Life Spiritual Psychology Assessment Scale (HLSPAS), *Spiritual Psychology and Counseling*, Vol.10, No. 2, Pp. 155-187, 2025. (with Azeem Dana, Pandiamani Sivam, Sulukkana Noiprasert and Damodaran. B), Scopus
- Student Self-Regulation Needs Inventory (SSRNI): A DSM (Diagnostic and Statistical Manual of Mental Disorders) Based Tool for Student Counselors to Identify Students' Self-Regulation Needs, *Journal of Advanced Applied Scientific Research*, Vol.7, No. 1, Pp. 29-48, 2025. (with Azeem Dana, Shashi Bala, Pushpa Nagini Sripada, Pandiamani Sivam, Damodaran, Karunanidhi Kannappan), Web of Science
- Neutrosophic Formulation of the Quadratic Transmuted Generalized Exponential Distribution: Properties and Applications, *Neutrosophic Sets and Systems*, Vol. 80, Pp. 11-34, 2025. (with Kumarapandiyan.G and Benitta Susan Aniyar), Scopus
- Effects of COVID-19 Pandemic on Adolescents based on Coping Behavior - Statistical Perspective Advances in Data Science and Adaptive Analysis, *Advances in Data Science and Adaptive Analysis*, Vol. 16, Nos. 3 & 4 (2024) 2450003 (<https://doi.org/10.1142/S2424922X24500037>) (with Jemima Wesley Williams), Web of Science
- Lindley's Approximation in Bayesian Parameter Estimation for the Quadratic Transmuted Exponential Model, *Aligarh Journal of Statistics*, Vol. 44, PP. 127-142, 2024 (with Benitta Susan Aniyar and Kumarapandiyan Gnanasegaran)
- Generalized p-Transmuted Neutrosophic Distributions: Theory and its Applications, *International Journal of Neutrosophic Science*, Vol. 24, No. 3, PP. 201-219, 2024 (Doi : <https://doi.org/10.54216/IJNS.240318>)(with K. Mohana, David Winster P. Devanayan, Krishnaprasad, D. Sandhya, Pradeep Kumar SV.), Scopus

- Analyzing the COVID-19 Pandemic's Effects on College Students: E-Learning Experience, Challenges and Resource Awareness. *Journal of Library & Information Services in Distance Learning*, 18(1-2), 18-37, 2024. <https://doi.org/10.1080/1533290X.2024.2332806> (with Sathya Kumar, H., & Barak, Y. S.), Scopus
- Classification Algorithms for Prediction of Obesity Levels based on Food Consumption and Physical Conditions using WEKA, *International Journal of Creative Research Thoughts*, Vol. 10(3), Pp. 246-255, 2022. (UGC J. No.: 49023)(with S. Baby Sandhya and P.A. Vanithapriya)
- Vector Error Correction Modeling for Forecasting Carbon Dioxide Emissions based on Economic Indicators, *Stochastic Modeling and Applications*, Vol.24, No.2, Pp. 179-188, 2020.(with A. Sheik Abdullah & A. Jawahar Farook)
- Evaluation of Teletraffic Queueing Model under Burr type XII Service Distribution, *Journal of Statistics & Management Systems*, Vol. 21, No. 1, Pp. 01-13, 2018.(UGC J. No.: 48569) (with K. Senthamarai Kannan)
- Traffic Analysis on Burr XII/M/1 Queueing Model under Bayesian Approach, *International Journal of Pure and Applied Mathematics*, Vol. 109, No. 6, Pp. 57-64, 2016. (Scopus, UGC J. No.:23425, H-Index: 28, I.F: 7.19) (with K. Senthamarai Kannan & A. Jawahar Farook)
- Single Server Queueing Model with Gumbel Distribution using Bayesian Approach, *Hacetatepe Journal of Mathematics and Statistics*, Vol. 45, No.4, Pp. 1275-1296, 2016. (UGC J. No.: 16786, SCI-EXP, SCOPUS) (with K. Senthamarai Kannan)
- Bayesian Estimation of M/Gumbel/1 Queueing Model for Heavy Tailed Congestion, *International Journal of Engineering and Future Technology*, Vol. 13, Issue.13, Pp. 223-224, 2016.(with K. Senthamarai Kannan & A. Jawahar Farook)
- Bayesian Queueing Model with Multiple Working Vacations under Gumbel Distribution, *Applied Mathematical Sciences*, Vol.9, No.48, Pp. 2363-2369, 2015. (Scopus, UGC J. No.:23425) (with K. Senthamarai Kannan)
- Parameter Estimation of Single Server Queue with Working Vacations, *Research & Reviews: Journal of Statistics*, Vol.2, Pp. 94-98, 2014. (with K. Senthamarai Kannan)

PUBLICATIONS: Book Chapters(3)

- Exploring the Impact of Early Trauma on Emotional Regulation and Mental Well-Being Among College Students: A Statistical Study on Adverse Childhood Experiences and Cognitive Emotional Regulation. In G. Arora, S. Singh, & H. Emadifar (Eds.), *Exploring Medical Statistics: Biostatistics, Clinical Trials, and Epidemiology* (pp. 224-241, June 2024). IGI Global. <https://doi.org/10.4018/979-8-3693-2655-8.ch011>. ISBN:9798369326558 (with Jemima Wesley Williams, Senga Murugan, Keziahrajamani Elangovan)

- Exploring some Neutrosophic Statistical Distributions: A Comprehensive Review of Methodology (Chapter 1), *Recent trends in Fuzzy set Theory and its Applications*, IIP Series, Pp. 1-15. March 2024 ISBN: 978-93-5747-463-4. (with Arul Joshua and Manivarsha)
- Comparative Analysis of Classification Algorithm's using Python: Prediction of Chronic Kidney Disease(Chapter 4), *A Statistical Approach to Nutrition & Human Health*, Vandita Publishing House, New Delhi, Pp. 38-57, 2021.(ISBN: 978-93-86661-02-9)(with S. Navin Kumar)

--- PUBLICATIONS: Conference Proceedings(3)

- Queueing Model with Gumbel Service Time Distribution in Teletraffic, International Conference on Mathematical Sciences, Elsevier, 767-771, 2014.(with K. Senthamarai Kannan)
- Bayesian Single Server Queueing Model – Asymmetric Loss Functions, State Level Seminar on Cellular Automata, Mohammad Taahaa Publications, pp. 44-51, 2013 (ISBN: 978-81-924081-1-8) (with K. Senthamarai Kannan)
- Comparison of Classical and Bayesian Estimators of M/M/1 Queueing Model, International Conference on Stochastic Modeling and Simulation, Hikey Media, 155-160, 2012 (ISBN: 978-81-925286-4-9). (with K. Senthamarai Kannan)

--- Faculty Development Programme(6)

- Online Faculty Development Programme on Art of Research and Publishing in Indexed Journals, organized by Madras Christian College, held on May 13 - May 22, 2024
- Refresher Course on Mathematics & Statistics organized by UGC-HRDC, Bharathiyar University, Coimbatore held from 17-30 August - 2023
- Refresher Course on Mathematics & Statistics (Pure & Applied) organized by UGC-HRDC, Gauhati University, Gawhati held from 24 January - 7 February, 2022
- Online Teaching & Learning Practices organized by Virtual Labs, MHRD, Govt. of India and Indian Institute of Technology New Delhi held from 07-23 December 2020.
- Refresher Course in Statistics organized by UGC-HRDC, Savitribai Phule Pune University, Pune held from February 25 - March 9, 2020.
- Orientation Programme organized by UGC-HRDC, Pondicherry University, Pondicherry held from March 01-28,2018

--- ACADEMIC ACTIVITIES(6)

Conference/Workshop/Seminar Organized

- Chaired a session at the International Conference on Recent Trends in Stochastic Modelling and its Applications organized by the Department of Statistics, Manonmaniam Sundaranar University Tirunelveli held on June 15-17, 2023.

- Chaired a session at the 2nd International Conference of Tamil Nadu Statistical Association organized by the Department of Statistics, ICMR - National Institute for Research in Tuberculosis, Chennai during March 17-18, 2023
- Member in Institutional Building Workshop on Conservation of Cultural Heritage of MCC organized by Madras Christian College held on August 19-21, 2022.
- Member in National Seminar on Statistical Theory and Applications organized by Department of Statistics, Madras Christian College held on May 13, 2022.
- Convener in National Conference on Recent Developments in Applied Statistics organized by Department of Statistics, Madras Christian College held on February 13-14, 2020.
- Co-convener in National Workshop on Statistical Computing Using R organized by Department of Statistics, Madras Christian College held on November 27-28, 2018.

Invited Talks(27)

- Workshop on Statistics Using SPSS organized by Department of Geography, Madras Christian College, Tambaram – 600 059 during March 4-6, 2025.
- Workshop on SPSS for Social Work Research organized by Department of Social Work, The American College, Madurai during February 27, 2025.
- Workshop on Data Analysis with SPSS organized by PG Department of Accounting & Finance, Shrimathi Devkunvar Nanalal Bhatt Vaishnav College for Women (Autonomous), Chrompet, Chennai – 600 044 on February 15, 2025.
- Workshop on Research Methodology using SPSS jointly organized by IQAC and Department of Commerce Information System Management, Shri Krishnaswamy College for Women, Anna Nagar, Chennai – 600 040 on January 30, 2025.
- National Level Workshop on Exploring the Dynamics of Structural Equation Models using AMOS organized by Institute for Scholarly Research and Training, Chennai 600 044 held on November 16, 2024.
- Workshop on Data Analysis using SPSS jointly organized by IQAC, Research Cell and Department of Commerce Information System management, Shri Krishnaswamy College for Women, Anna Nagar, Chennai – 600 040 during September 23 & 24, 2024.
- Workshop on SPSS and R Programming organized by the Department of Statistics, Madras Christian College during September 9-12, 2024.
- Workshop on Statistics using SPSS organized by Department of Geography, Tourism and Travel Management, Madras Christian College during March 6 & 8, 2024.
- Workshop on SPSS jointly organized by Deanery - Research & Development and Department of Statistics, Madras Christian College, East Tambaram, Chennai - 600 059 during February 12-16, 2024.

- Faculty Development Programme on the Nuances of Scientific Writing and Publishing jointly organized by International Network for Christian Higher Education and Madras Christian College from September 28-30, 2023 hosted by CSI College of Engineering, Ketti
- Workshop on SPSS and R Programming organized by the Department of Statistics, Madras Christian College, September 19-22, 2023.
- SPSS workshop organized by Department of Social Work (SFS), Madras Christian College during July 17 & 18, 2023.
- Capacity Building Workshop for Faculty on Research Methodology and Manuscript Writing on Service-Learning Programmes organized by Maris Stella College, Vijayawada during April 25-26, 2023.
- National Conference of Tamil Nadu Statistical Association organized by Department of Statistics, ICMR-National Institute for Research in Tuberculosis, Chennai during March 17 & 18, 2023.
- Workshop on Capacity Building Program for Member Institutions Effective Research methodology and Publication Strategies organized by Madras Christian College and AIACHE during 27th February 2023 – 3rd March 2023.
- Workshop on SPSS organized by Department of Commerce(SFS), Madras Christian College during October 11 & 12, 2022.
- Workshop on Statistical Package for Social Science organized by Department of Social Work(SFS), Madras Christian College on March 26, 2022.
- Statistics for Communication Studies: A Hands-on Workshop organized by Department of Communication, Madras Christian College on December 06, 2021.
- Research and Development Programme-Orientation on SPSS & R organized by Department of Statistics, Madras Christian College during September 15-18, 2021.
- Faculty Development Programme on Data Analysis using SPSS organized by Internal Quality Assurance Cell & Department of Statistics, Madras Christian College during September 01-03, 2021.
- Weibner on Evolution of Education & Financial Aid in India in Commemoration of National Education Day – 2021 organized by Sri Akilandeswari Women's College, Wandiwash on November 20, 2021.
- Workshop on Statistical Analysis using Excel organized by Department of Statistics, G. Venkataswamy Naidu College, Kovilpatti, Thoothukudi during October 19, 2020.
- National Level Webinar on Research Methodology and Data Analysis Using SPSS organized by Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli during November 27 & 28, 2020.
- Training in the National Workshop on Statistical Computing using R held on 27 & 28 September, 2018 organized by Department of Statistics, Madras Christian College, East Tambaram
- Training Programme on “Statistical Software Package on SPSS” organized by Department of Statistics, G. Venkataswamy Naidu College, Tirunelveli on December 26, 2016.

- Workshop in SPSS, Department of Statistics, G. Venkatasamy Naidu College, Kovilpatti, Thoothukudi
- Workshop on SPSS Software organized by Xavier's College, Palayamkottai, 09 -10 March, 2015.

Paper Presented(7)

- Impact of Factual Cosmetic Video Advertisements of Instagram: A Study among Working Women in Chennai in the International Conference on New Horizons in Science, Technology and Management for Sustainable Development organized by School of Management, Nehru Arts and Science College, Coimbatore held on January 31, 2025.
- Machine Learning Algorithms for Severity of Depression, Anxiety, Stress among College Students based on Coping Behaviors in the International Conference on Recent Trends in Stochastic Modeling and Its Applications organized by Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu during 24 & 25 June, 2022.
- Identification and Prediction of Gene Expression Profiles in Human Myocardial Infarction in the International Conference on Recent Trends in Stochastic Modelling and Its Applications organized by Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu 09-11 January, 2020.
- A Statistical Study on Challenges for Living by Street Vendors in Chennai Thyagaraya Nagar Region in the National Conference on Recent Trends in Applied Mathematics and Statistics (NCRTAMS-2018) held on January 20, 2018 organized by the Department of Mathematics and Statistics, S. S. S. Shasun Jain College, Chennai.
- Bayesian BURR XII/BUR XII/1 Queueing Models in the International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences (IPECS-2018) in conjunction with Bi-Decennial Conference of Society of Statistics, Computer and Applications (SSCA) during 29-31 January 2018 organized by Department of Statistics, Pondicherry University, Puducherry.
- Bayesian Estimation of Heavy Traffic Analysis on M/ Burr XII/1 Queueing Models in the National Conference on Stochastic Modelling and its Applications held on January 4-5, 2017 Organized by the Department of Statistics, Manonmaniam Sundaranar University, Tirunelveli.
- Heavy Traffic Analysis in Bayesian Queueing Models with Burr Type XII Distribution in the Second International Conference on Statistics for Twenty First Century- 2016, held on December 21-23, 2016 Organized by the Department of Statistics, University of Kerala, Trivandrum.

Memberships

- Active Member in International Society of Fuzzy Set Extensions and Applications (ISFSEA)
- Life Member in Indian Society for Probability and Statistics (ISPS)
- Life Member in Society of Statistics, Computer and Applications(SSCA)
- Life Member in Indian Bayesian Society (IBS)

Skills

- Python, JAMOV, R Programming, SPSS, AMOS, MS Excel, LATEX

Courses Taught (UG & PG for the Past 10 Years)

- Theory of Estimation
- Real Analysis
- Distribution Theory
- Stochastic Process
- Statistical Quality Control
- Mathematics for Statistics
- Advanced Operations Research
- Python Programming
- Programming in C++

Graduate Student Advising

Ph.D., Graduates(1)

- Rachel George M – A Study on Advanced Statistical Distributions and its Properties, 2024 (On going)

M.Phil., Graduates(1)

- Princy Sushma. P (1801714075002) – A Study on Some Transmuted Family of Distribution, 2021

M.Sc., Graduates(19)

- Hariharan. P (2301712075017) & Jebastin. E (2301712075018) - A Statistical Study on Prioritizing the Mental Health in the Workplace: Organizational, Inter-personal and Personal Influences, 2025
- Arul Joshua. W & Manivarsha. V. - Some Neutrosophic Statistics: A Comprehensive Review of Methodology, 2024
- Keziahrajamani. E (2101712075009) & Snega. M (2101712075014) - A Study on Psychological Trauma and the Cognitive Emotional Regulation of the College Students, 2023
- Kanimozhi. S (2101712075008) - A Study on Social Media Usage and its Impact on the Mental Health of the College Students, 2023
- Harish. S (2001712075017) & Yusuf Sharukkhan. B(2001712075020) - A Study on Experiences, Challenges and Awareness of E-learning Resources among College Students in Affiliated by University of Madras during COVID-19 Pandemic, 2022
- S. Baby Sandhya (1901712075002) & P. A. Vanithapriya (1901712075016)- Prediction of Obesity Levels based on Food Consumption and Physical Conditions, 2021.
- Betsi Julio. S (1801712075004) & Lidiya. S (1801712075013) - A Statistical Comparison on Classification Algorithms for Prediction of Chronic Kidney Disease, 2020.

- Abisha Jona. P & Sara Anita Kumari. J - Statistical Study on Human Myocardial Infarction from Gene Expression Profiles,2019.
- Persis Jasper. S (164ST105) & Princy Sushma. P (164ST106) - Modelling for Fertility Rates, 2018.
- Nishanth. S (154ST118) - A Statistical Study on Challenges and Prospects of Street Vending in Chennai Thyagaraya Nagar Region, 2017.
- Anish Varghees Larzy(154ST117) – Prediction of Global Warming using Higher Order Multivariate Markov Chain Model, 2017.