Faculty Profile of Dr. K. M. Sakthivel

Dr. K. M. Sakthivel
Professor
Department of Statistics

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Mobile No:9444139638

Research Area

- Statistical Inference
- Statistical Modeling
- Statistical Quality Control
- Artificial Neural Networks

Education & Career

Education

Ph.D.
Subject : Statistics
Institution : Bharathiar University, Coimbatore
Affiliated University : Bharathiar University, Coimbatore
Year of Award : 2012

M.Phil.,
Subject : Statistics
Institution : Loyola College, Chennai
Affiliated University : University of Madras
Year of Award : 2005

M.Sc.,
Subject : Statistics
Institution : Loyola College, Chennai
Affiliated University : University of Madras
Year of Award : 1999

Career

At Bharathiar University (Reverse Order)
Associate Professor : June 2018 to Till Date
Assistant Professor : June 2007 to June 2018

Past Experience
Assistant Professor : April 2005 to June 2007 at University of Madras

Awards

Membership

Membership in Professional Bodies

Organization : Indian Society for Probability and Statistics
Type of Membership : Life Member

Organization : Indian Bayesian Society   Life Member
Type of Membership : Life Member

Visits

Collaborators

Others

Projects

Funded Projects (National Level)
- [Ongoing](#)
- [Completed](#)

Ongoing Projects List with necessary Information
Completed Projects List with necessary Information

Consultancy Projects
- [Ongoing](#)
- [Completed](#)

Ongoing Consultancy Project Informations
Completed Consultancy Project Informations

Research Guidance

- [Post Doc.](#)
- [Ph.D.](#)
- [M.Phil.](#)

- [M.Sc.](#)

Ongoing

Title

Name

Completed

Title

Name

Ongoing

1) Thirunavukarasu T V

2) Vidhya G

3) Alicia Mathew

4) Nandhini V

5) Rachana B P

Completed

1) **Rajitha C S**

Contributions to Statistical Modeling of Count Data with Applications

January 2019

2) **Rajkumar J**

Some Contributions on Generating New discrete probability distributions using Lagrange Expansion

January 2021

3) **Alshad K.B**

Contribution to Probability Modelling of circular data with applications

March 2021

4) **Kumar S**

Contribution to Certain Development of Minimum Probability Distribution

March 2021

5) **Arul Chezhian A**

Contributions on Certain Development in the Extension of Pareto Distribution

December 2021

6) **Dhivakar K**

Contributions on Some Topp-Leone Generated Family For Dagum Distribution

December 2021

Ongoing

Sample Data.

Completed

1. P.Jegadeesan, A REVIEW ON PITMAN MEASURE OF CLOSENESS IN THE THEORY OF STATISTICAL ESTIMATION, 2010

2. M.Sundarrajan, ESTIMATION PROCEDURES FOR PARETO POPULATIONS -BAYESIAN AND NON-BAYESIAN APPROACH, 2011

3. K.Sulochana, A REVIEW ON SOME BASIC CONCEPTS OF MIXED SAMPLING PLANS, 2012

4. E.Unnikrishnan, EMPIRICAL STUDY ON BOOTSTRAP METHODS USING R PROGRAMMING, 2012

5. T.Thavamani, EVOLUTION OF FAMILY OF INTERVENED POISSON DISTRIBUTION, 2012

6. A.Jeyaprakash, A STUDY ON DEVELOPMENTS OF VARIOUS BLOCK BOOTSTRAP METHODS, 2012

7. P.Ramesh, A STUDY ON SOME ASPECTS OF LOGISTIC REGRESSION, 2013

8. V.Nirmala, BAYESIAN INFERENCE ON POSTERIOR DISTRIBUTIONS USING SIMULATION TECHNIQUES, 2013

9. S.Kumar, A STUDY ON STRUCTURE AND INFERENCE OF GAMMA TYPE DISTRIBUTIONS, 2013

10. R.Ramesh, REVIEW ON CERTAIN SIGNIFICANT RESULTS OF EQUIVARIANT ESTIMATION, 2013

11. Rajitha, C.S, A Note on Significance of Discretization of Continuous Probability Distributions, 2014

12. K.Kaviyamani, Certain Developments of Credibility Analysis in Insurance, 2016

13. T.Thenmozhi, A study on the role of Poisson Regression Models in Insurance Ratemaking, 2016

14. Alshad, K.B Some Contribution to Mixture of Poisson and Sushila Distribution, 2017

15. Suryasree S B, A Study on Theory and Applications of Family of Extreme Value Distributions, 2019

16. Vidhya G, A New Contribution on Rayleigh Distribution by Using Cubic Transmutation Map, 2020

Ongoing

Sample Data.

Completed

1. R.Devi & K.Sulochana, A Study on Married Working Women in Coimbatore, 2008

2. A.Jeyaprakash, A Statistical Study on FMCG Products in Coimbatore, 2009

3. S.Maruthu Pandiyan, A Survey on Livelihood conditions of Farmers in Thanjavur, 2009

4. K.Thavamani, A Study on Cluster Analysis with special reference to R Programming, 2009

5. A.Sathiasivam, Meteorological Data Analysis, 2009

6. M. Krishamurthy, A survey on livelihood conditions of tea estate workers in Nilgiri district, 2010

7. S. Nandhini, A statistical analysis on pollution of Tamilnadu, 2010

8. P. Ramesh, A survey on practice and benefits of yoga in Coimbatore, 2010

9. E. D. Boobalan, Statistical analysis on time series data, 2011

10. A. Gospel carolin, A study on natural calamity in India, 2011

11. Prathibhathambi, A study on ambition of government high school students on Coimbatore, 2011

12. R. Reka, Social economic status of silk handloom weavers in Anthiyur, 2011

13. N. Sathya,   A survey on awareness about aids among Bharathiar University students, 2011

14. S. Chandrukumar, A study on teacher's opinion about uniform education system in Tamilnadu, 2012

15. A. Gowthamam, An assessment of family & organisational management of working women, 2012

16. C. Nathiya, A survey on female students who started married life during their higher education, 2012

17. K. Raheema, A study on impacts of media on post graduate students in Coimbatore, 2012

18. S. Saravanaprabhu, A study on socio economic status of transgender in Coimbatore, 2012

19. S. Tharanya, A statistical study on leading automobile companies in India, 2012

20. P. Dhivya, A statistical analysis on energy resources, 2013

21. D. Jayakumar, A statistical study on transport in India, 2013

22. M. Premkumar, A statistical study on annual survey of industries in time series analysis, 2013

23. C. Vengatesh, A study on utilization of central government minority scholarship in India, 2014

24. J. Krishnan, A study on wholesale price index based inflation rate in India, 2015

25. M. Periyasamy, A study on certain economic indicators of India, 2015

26. T. C. Anwatha, A study on Kernel density estimation and its applications, 2016

27. P. C. Chinju, A study on big data analysis and its application, 2016

28. J. Rajkumar, A study on fuzzy logic and its applications, 2016

29. T. Saranya,   Bayesian inference for forecasting of agricultural production in Tamilnadu, 2016

30. A. Arul chezhian, Time series analysis on forecasting weather conditions for agriculture in Tamilnadu, 2017

31. K. Dhivakar, A study on impacts of demonetization on heads of family in Coimbatore, 2017

32. M. Eswaran, A survey on customer preference and satisfaction about big bazaar in Coimbatore, 2017

33. M. Rathima, A study on awareness level of diabetic patients in Coimbatore, 2017

34. R. Santhiya, A study on challenges faced by women police personals in Tamilnadu, 2017

35. S. Hemalatha, A study on economic progression of India through five year plans, 2018

36. S. Mariyamjamila, A study on distribution and consumption of LPG in India, 2018

37. R. Pounkumar, A study on share prices of major telecommunication companies in India, 2018

38. G. sowmiya, A study on water reservoirs in Tamilnadu, 2018

39. S. Swathi, A study on fleet management in India, 2018

40. A. Aruna, A review on some special type of regression models, 2019

41. Aryadhayal, A scientific assessment of musical performance, 2019

42. A Hemapriya, A study on indirect estimators in small area estimation, 2019

43. Karthikaharidas, A study on student's stress level in Bharathiar University, 2019

44. S. Mayuri, A study of fish production in India, 2019

45. K. Pranav, A dissertation on epidemic study of zika virus and its implications, 2019

46. R. Ram sundar, A survey on supporting factors to get admission in professional courses, 2019

47. M. Venkateshkumar, A study on tourism planning of youth in Tamilnadu, 2019

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books / Chapters](#)
- [Database](#)

2020

26. A Generalization of Wrapped Exponential Distribution: Properties and Application
    K.M Sakthivel and K.B.Alshad
    International Journal of Mathematics and Statistics, Vol.21, No.3, 2020.

25. Alpha power transformed Pareto distribution and its properties with application
    K.M. Sakthivel and A. Arul chezhian
    Malaya Journal of Matematik, Vol. 1,S, No. 52-57, 2020.

2019

24. A Supplement on Generalized Pareto Distribution Using Weibull and Dagum distribution
    K.M Sakthivel and K.B. Alshad
    International Journal of Research in Advent Technology, Vol.7, No.3S, pp. 98-104, 2019.

23. A new discrete negative binomial – Haight distribution and its property
    K.M. Sakthivel and A. Arul chezhian
    A Journal of Composition Theory, vol. 12, issue 9, page no. 181-186, 2019.

22. Geometric – Geeta Distribution Using Lagrange Expansion of Second Kind
    K.M. Sakthivel and J. Rajkumar
    The International Journal of Analytical and Experimental Model Analysis, 11(10), pp. 1937-1945, 2019.

21. Generating Haight-Poisson Distribution Using Lagrange Expansion
    K.M. Sakthivel, J. Rajkumar and A. Arul chezhian (2019)
    Journal of Information and Computational Science, 9(12), pp.930-935, 2019.

20. Negative Binomial - Geeta Distribution and Some of its Property
    K.M. Sakthivel and J. Rajkumar

International Journal of Scientific & Technology, 8(9), pp.1498-1501. (Indexed by Scopus, Elsevier), 2019.

19. A New Version of Cubic Rank Transmuted Minimax Distribution
    K. M. Sakthivel, S. Kumar and K. Dhivakar
    A Journal of Composition Theory, Volume 12, Issue 11, pp.703-713, 2019.

18. Zero Inflated Negative Binomial - Lindley Distribution and Its Applications
    K.M. Sakthivel and C.S Rajitha
    Far East Journal Of theoretical Statistics, vol. 55, no. 2, pp. 101-112, 2019.

17. Model Selection for Count Data with Excess Number of Zero Counts
    K.M. Sakthivel and C.S Rajitha
    American Journal of Applied Mathematics and Statistics, 7(1), pp.43-51, 2019.

2018

16. A Mixture of Negative Binomial – Sujatha Distribution
    K. M. Sakthivel, C S Rajitha, J Rajkumar
    Mathematical Science International Research Journal, 7(2), page no. 194-200. (IMRF journals). ISSN 2278-8697, 2018.

15. Estimation of Zero-Inflation Parameter in Zero-Inflated Poisson Model
    K.M.Sakthivel and C.S. Rajitha
    International Journal of Mathematics Trends and Technology (IJMTT), Volume 56 Number 2, pg 135-140, 2018.

14. Statistical Modeling of Count Data using Negative Binomial Generalized –Lindley Distribution
    K.M. Sakthivel, C.S Rajitha and K.B. Alshad
    IOSR Journal of Engineering (IOSRJEN), pp. 01-06, 2018.

13. Negative Binomial Sujatha Distribution and its Applications in Analysis of Overdispersed Count Data
    K.M. Sakthivel , C.S Rajitha and J. Rajkumar

Mathematical Sciences International Research Journal, 7(2), pp.194-200. ISSN 2278-8697, 2018.

12. Application of Kernel Density Estimation in Chain Ladder Method for Claim Reserving
   K.M. Sakthivel and C.S Rajitha
   International Journal of Scientific Research in Mathematical and Statistical Sciences, 5 (6), pp.186-193, 2018.

2017

11. A Comparative Study of Modeling on Claim Frequency in Non-life Insurance
   K.M.Sakthivel and C.S. Rajitha
   International Journal of Statistika and Mathematika (IJSAM), ISSN: 2277-2790 E-ISSN: 2249-8605, Volume 24 Issue 1,pg 01- 06, 2017.

10.   Zero –Inflated Negative binomial-Sushila Distribution and its Applications
   K.M. Sakthivel, C.S Rajitha and K.B. Alshad
   International Journal of Pure and Applied Mathematics, 117 (Special issue 13), pp. 117-126, 2017.

09. Estimation of claim severity in non-life insurance: a non-parametric approach
   K.M.Sakthivel and C.S Rajitha
   International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Vol.6, Pg 195 – 198.ISSN :(Online) 2278-1021. ISSN : (Print) 2319-5940, 2017.

08.   A study of claim size estimation using general linear model and artificial neural network
   K.M.Sakthivel and C.S Rajitha and J.Rajkumar
   Global Journal of Pure and Applied Mathematics(GJPAM), (ISSN : 0973-1768), Vol.13, Pg 505 – 514, 2017.

07.   A comparative study of zero-inflated, hurdle models with artificial

neural network in claim count modeling
    K.M.Sakthivel and C.S Rajitha
    International Journal of Statistics and Systems, (ISSN : 0973-1768), Vol.12, Pg 265 -276, 2017.

2016

06. Artificial intelligence for estimation of future claim frequency in non-life insurance
    K.M.Sakthivel and C.S Rajitha
    Global Journal of Pure an Applied Mathematics (GJPAM), (ISSN : 0973-1768), Vol.13, Pg 1701 -1710, 2016.

05. Kernel density estimation for claim size distributions using shifted power transformation
    K.M.Sakthivel and C.S Rajitha
    International journal of science and research (IJSR),(ISSN : 2319-7064), Vol.5, Pg 2025 -2028, 2016.

2015

04. Design and Evaluation of Bayesian Dependent State Sampling Inspection Plans
    R.Vijayaraghavan and K.M.Sakthivel
    Journal of Testing and Evaluation,Vol 43, Issue 3, (ISSN:0090-3973),Pg 629 – 644, 2015.

2011

03. Chain Sampling Inspection Plans Based on Bayesian Methodology,
    R.Vijayaraghavan and K.M.Sakthivel
    Economic Quality Control, Vol 28, issue 2, pp.173 - 187. (ISSN: 1869 - 6147), 2011.

2010

02. Selection of Bayesian Double Sampling Inspection Plans by Attributes with Small Acceptance Numbers

R.Vijayaraghavan and K.M.Sakthivel

Economic Quality Control, Vol 26, issue 2, pp. 207-220. (ISSN: 1869 - 6147), 2010.

01. Expected overflow in a finite dam model for a class of Master equations with separable kernels

P.R.Vittal,K.M. Sakthivel and V.Muralidhar

International Journal of Statistics and Management System Vol.5, No.1-2, pp.141-153, (ISSN : 0973-7359), 2010.

National Publications - Reverse Chronological Order

Patent Info

Conference Info

Books & Chapters Related Info

Database Related Info

Alumini Reflections: