

Name: Dr Harsha S

Designation: Assistant Professor

Email ID: [harshasprabhu01@gmail.com](mailto:harshasprabhu01@gmail.com).

- **Educational Qualifications**

Degree	Specialization	College	University	Year
Ph.D.	Statistics	Mangalore University	Mangalore University	2020
M.Sc.	Statistics	Mangalore University	Mangalore University	2013
B.Sc.	Statistics, Mathematics, Computer Science	Sri Dharmasthala Manjunatheshwara Degree College Ujire	Mangalore University	2011

- **Past Experience**

Designation	Institution	Tenure	
		From	To
Guest Faculty	Department of Statistics Mangalore University	01/08/2019	17/09/2022
Guest Faculty	Department of Statistics Mangalore University	28/11/2022	04/08/2023
Guest Faculty	Department of Statistics Mangalore University	26/10/2023	08/11/2023
Assistant Professor	Department of Statistics Yenepoya (Deemed to be University)	09/11/2023	Till date

**TESTING FOR FINANCIAL BUBBLES IN THE PRESENCE OF AUTO-CORRELATED ERRORS**

Harsha S and Ismail B

[Statistical Journal of the IAOS 2023; 39:721-727](#)

**APPLICATION OF VECTOR AUTOREGRESSIVE MODEL**

Harsha S and Shreya Maheshchandra

[Journal of Research in Applied Mathematics 2023;9\(3\):54-60](#)

**REVIEW ON FINANCIAL BUBBLES**

Harsha S and Ismail B

[Statistical Journal of the IAOS 2019; 35:501-510.](#)

**STATISTICAL ANALYSIS ON GLOBAL TEMPERATURE ANOMALIES**

Harsha S and S.M. Fernandes

[International Journal of Computer Science and Engineering 2018;6 \(6\):60-68.](#)

**STATISTICAL ANALYSIS ON PRICE SERIES OF ARECANUT**

Harsha S, Ismail B and Sinchana N

[Journal of Emerging Technologies and Innovative Research 2018;5 \(8\):993-1004.](#)

**IMPROVED TEST FOR DETECTING EXPLOSIVE BUBBLES**

Harsha S and Ismail B

[Journal of Data Science 2017;15\(3\):495-508.](#)

**DETECTING SPECULATIVE BUBBLE: POWER COMPARISON OF UNIT ROOT TESTS**

Harsha S and Ismail B

[International Journal of Statistics and Systems 2017;12 \(3\):499-507.](#)

**ROLE OF STATISTICS IN MONITORING RAINFALL**

Harsha S

[IOSR Journal of Environmental Science, Toxicology and Food Technology 2017;11 \(3\):7-19.](#)

**DURATION DEPENDENCE TEST TO DETECT FINANCIAL BUBBLE USING GENERALIZED LOGISTIC HAZARD FUNCTION**

Harsha S and Ismail B

[International Journal of Finance and Quantitative Methods 2016; 39\(1\):1103-1107.](#)

Name: Dr Ismail B

Designation: Professor & HOD

Email ID: [prof.ismailb@gmail.com](mailto:prof.ismailb@gmail.com)

### Educational Qualification: M.Sc. Ph.D.

Degree	Specialization	College	University	Year
Post-Doctoral Research	Statistics	Department of Statistics, University of Glasgow, Glasgow, Scotland U.K.	University of Glasgow	2000-2001
Ph.D.	Statistics	Mangalore University	Mangalore University	1993
M. Sc.	Statistics	University of Mysore	Mangalore University	1981
B.Sc.	Physics, Statistics, Mathematics	University of Mysore	University of Mysore	1979

- **Past Experience**

Teaching Post graduate courses in Statistics/Biostatistics

Designation	Institution	Tenure	
		From	To
Professor of Statistics	YENEPOYA (Deemed to be University), Mangalore.	June 2019	Till Date
Professor of Statistics	Mangalore University, Mangalagangothri.	August 2005	April 2019
Reader in Statistics	Mangalore University	August 1997	July 2005
Senior Lecturer in Statistics	Mangalore University	1993	1997
Lecturer in Statistics	Mangalore University	July 1985	Jan.1993
Lecturer in Statistics	Acharya Nagarjuna University, Vijayawada, A.P.	April 1985	June 1985
Lecturer in Statistics	Mangalore University, Mangalagangothri	October 1981	March 1985

### Awards and Recognition:

- Commonwealth Fellow 2000 awarded by the Association of Commonwealth Universities, U.K.
- Honorary Senior Research Fellow, Department of Statistics, University of Glasgow, Glasgow, Scotland U.K. 2000-2001.
- “Franca e Diego de Castro” Award (jointly with C T Jose) for the Research Paper “Estimation of Error Correlation in Nonparametric Regression” in honour of Diego de Castro, Torino, Italy, 2004.

- One of the research work on Detecting discontinuity in regression model is referred in the Text Book *Local Linear Regression* by Loader, Springer Publications.
- Indian Society for Probability and Statistics nominated for Evaluation of Best Research work Prof.K.S. Rao Best Resreach Award 2023 Department of Statistics & Operations Research Aligrah Muslim University.
- Best Researcher Award, Yenepoya (Deemed to be University) on the occasion of National Science Day 2023.

## RESEARCH:

### Area of Research interest

- Regression Analysis
- Generalized Linear models
- Econometrics
- Nonparametric Regression & Financial Time Series

Main research work focuses on nonparametric regression. Worked on modeling discontinuous phenomenon. In the field of Nonparametric Regression contribution has been made on detecting discontinuities in regression function, estimation of jump size and testing for discontinuities. Developed improved methods for estimation and testing Change points in regression curves and surfaces. Developed models and methods that improved accuracy in forecasting financial time series. Developed Hybrid Predictive models.

### Candidates Successfully Guided for Ph.D. Degree:

Sl No	Name	Date of Award	Title
1	Mr.Satyanarayana	01-01-2024	Studies on Structural Equation Modeling
2	Mr.Godfrey Joseph Saqware	14-12-2023	Studies and Modeling and forecasting of Financial Data
3	Mr.Kadek Jemmy Waciko	04-02-2022	Studies on Modeling and Forecasting Tourism Demand
4	Mr.Dilip Kumar Shetty	05-04-2022	A Study on Financial Time Series and Forecasting
5	MR.Harsha S	17-02-2020	An Econometric Analysis of Financial Bubbles
6	Ms.Manjula Suvarna	19-12-2020	Contribution to Statistical Models in Epidemiological Studies
7	Ms.Ashwini Kumari	17-06-2019	Studies on Modeling of Financial Time Series
8	MS.Vidya Bai G	06-02-2017	Studies on Modeling and Analysis of Financial Time Series
9	Mr.Ataulla	18-02-2016	Studies on Time Series forecasting using Wavelets with Neural Networks
10	Mr.Anjum Khan	08-04-2014	Some Contribution to Nonparametric Regression by Wavelet Thresholding.
11	Mr.C T Jose	2000	Nonparametric Inference in Regression models.

Published **57** research papers in National/International Journals in the area of statistical theory and methods and. Delivered invited lectures in various educational institutions and co-authored **46** technical articles in conference/ Seminar presentation.

## PUBLICATIONS:

Sl. No	Year	Author and Title	Name of Journal
1	2024	Godfrey Joseph Saqware and Ismail B “Hybrid Deep Learning Model Integrating Attention Mechanism for the Accurate Prediction and Forecasting of the Cryptocurrency Market”	Operations Research Forum (2024) 5:19 <a href="https://doi.org/10.1007/s43069-024-00302-2">https://doi.org/10.1007/s43069-024-00302-2</a> The Author(s), under exclusive licence to Springer Nature Switzerland AG 2024
2	2023	Satyanarayana Poojari and Ismail B. (2023), “A Hybrid Regression Model for Improving Prediction Accuracy”.	Electronic Journal of Applied Statistical Analysis Vol. 16, Issue 3, 2023, 784-801 DOI: 10.1285/i20705948v16n3p784 (SCOPUS)
3	2023	Godfrey Joseph Saqware and Ismail B. (2023), “Deep and Machine Learning Models For Accurate Prediction and Classification of the Selected Online Shopping Stock Market”.	Aligarh Journal of Statistics Vol. 43(2023) 49-621 ISSN 0971-0388 IF 9.24 (UGC CARE)
4	2023	Satyanarayana and <b>Ismail. B</b> (2023), “A hybrid regression model for cashew nuts price prediction”, statistics and Applications.	Journal of society of statistics and Applications ( Statistics and Applications {ISSN 2454-7395 (online)} Volume 21, No. 2, 2023 (New Series), pp 319–327 <a href="http://www.ssca.org.in/journal">http://www.ssca.org.in/journal</a> (WOS) 0.79.
5	2023	Harsha S and <b>Ismail B</b> (2023), “Testing for financial bubbles in the presence of auto-correlated errors”	Statistical Journal of the IAOS Vol. 39, pp 721-727, DOI 10.3233/SJI-230024. (SCOPUS) 0.297
6	2023	Saqware, G., and <b>Beary I</b> (2023), Hybrid SARIMA-Facebook Prophet Model for Prediction and Forecasting of the Staple Food Prices in Tanzania	<i>International Journal of Operations Research</i> , 20, PP 1-11, August, 2023. <a href="https://doi.org/10.6886/IJOR.202308_20.0001">https://doi.org/10.6886/IJOR.202308_20.0001</a> . (SCOPUS) 0.374

7	2023	Godfrey Joseph Saqware and <b>Ismail B(2023)</b> , "A novel ensemble method for the accurate prediction of the major oil prices in Tanzania"	<i>ADBU-Journal of Engineering Technology</i> , AJET,ISSN:2348-7305, Vol.12, Issue1, June, 2023 0120103379(15PP) <b>(UGC CARE) IF 3.276</b>
8	2023	Ashwini Kumari and <b>Ismail.B</b> and MS Manjula (2023) " A comparison of seasonal volatility models" .	<i>Materials today: Proceedings</i> , Science direct , May 2023 <a href="https://www.sciencedirect.com/science/article/abs/pii/S221478532303134">https://www.sciencedirect.com/science/article/abs/pii/S221478532303134</a> ( <b>SCOPUS</b> ) <b>IF 2.59</b>
9	2023	Satyanarayana and <b>Ismail B</b> "Generalised least square ratio estimator in heteroscedastic regression model	<i>Advances and Applications in Statistics</i> © 2023 Pushpa Publishing House, Prayagraj, India <a href="http://dx.doi.org/10.17654/0972361723023">http://dx.doi.org/10.17654/0972361723023</a> Volume 86, Number 2, 2023, Pages 207-227 P-ISSN: 0972-3617, <b>SCOPUS IF 0.2.</b>
10	2023	Dileep Kumar Shetty & <b>B. Ismail</b> Forecasting stock prices using hybrid non- stationary time series model with ERNN	<i>Communications in Statistics- Simulation and computation</i> Volume <b>52</b> , 2023, Issue 3 Pages 1026-1040 , Taylor & Francis ( <b>WOS, SCOPUS</b> ) <b>1.162</b>
11	2022	Godfrey Joseph Saqware <sup>1</sup> and Ismail B, "Markov-Switching GARCH and Mixture of GARCH-type Models for Accuracy in Forecasting"	<i>{ISSN 2454-7395 (Online) Volume 20, No. 1, 2022 (New Series), pp 1-15</i>
12	2021	Satyanarayana and <b>Ismail B</b> "Linear structural equations with latent variables"	<i>International journal of Agricultural and Statistical Sciences</i> Vol.17, No.1,pp.293-300
13	2021	Satyanarayana and <b>Ismail B</b> "Hybrid Model for Improving Classification, Accuracy"	<i>Stochastic Modeling And Applications</i> Vol. <b>25</b> No. 1, (January-June, 2021)
14	2020	Ashok W. Dsouza, <b>Ismail B</b> (2020) "Mutual fund rating predication using proportional odds logistic regression with imbalanced class	"International journal of recent Technology and Engineering (IJRTE)., ISSN:2277-3878, Vol-8, Issue-5S, January 2020
15	2020	Godfrey Joseph Saqware, and <b>IsmailB</b> , "Modeling Volatility in the Stock Market for Accuracy in Forecasting".	<i>International Journal of Recent Technology and Engineering (IJRTE)</i> ISSN: 2277-3878, Volume-8 Issue-5, page 41-49

16	2020	Waciko, K.J, and <b>Ismail B</b> , “Performance of Shrinkage methods for Forecasting GDP”.	<i>International Journal of Advanced Science and Technology</i> (IJAST).Vol. <b>29</b> ,No.5,pp. 7792-7799 (ISSN:2005-4238, Science and Engineering Research Support Society (SERSC) Australia), UGC-CARE list approved Journal, index in Scopus Q3, SJR 2018) IF 0.11
17	2020	Waciko, K.J and <b>Ismail B</b> “Forecasting Tourist Arrival to Bali-Indonesia from 3 Countries Using Thief Hybrid Method”.	<i>International Journal of Scientific and Technology Research</i> , Volume <b>09</b> , Issue 02,, pp. 1720-1725, (ISSN 22778616, (Indexed in Scopus, a part of Group A of UGC CARE List No:208). IF 0.12
18	2020	Waciko,J, and <b>Ismail B</b> “SARIMA-ELM hybrid model versus SARIMA- MLP hybrid model”.	<i>International Journal of Statistics and Applied Mathematics</i> ; 5 (2): 01-08 (ISSN: 2456-1452,
19	2019	Harsha S and <b>Ismail B</b> “Review on Financial Bubbles”.	<i>Statistical Journal of the International Association for Official Statistics (IAOS.) Vol. 35 (3), pp.501-510. IF 0.42</i>
20	2019	Waciko,J, and <b>Ismail B</b> “Panel Data Model for Tourism Demand”	<i>International Journal of Scientific &amp; Technology Research. Volume 8, Issue 09, pp. 317-323 (ISSN 22778616, Indian journals indexed in Scopus, a part of Group A of UGC-CARE List No: 208) IF 0.12</i>
21	2019	C.T. Jose, K.P. Chandran , K. Muralidharan C, S.Sujatha and <b>B.Ismail</b> “Robust Nonparametric Covariance Technique”	<i>Statistics and Applications {ISSN 2452-7395 (online)} volume 17, No. 2, 2019 (New Series), pp 37-45</i>
22	2019	Satyanarayana, <b>Ismail B</b> , Gayathri Upadhyaya (2018): “Predicting the survival of ICU patients through Structural Equation Model”	<i>International Journal of Scientific Research in Computer Science Applications and Management Studies</i> , Vol. <b>7</b> , Issue No.6, ISSN 2319- 1953
23	2019	DK Shetty and <b>Ismail B</b> “Forecasting Financial time series using a hybrid non-stationary model with ANN	<i>International Journal of Computer Science and Engineering</i> , ISSN 2349-2693
24	2018	Waciko, K.J and <b>Ismail B</b> “Forecasting International Tourism in Bali”	<i>ZENITH International Journal of Multidisciplinary Research. Vol.8 (9), pp. 21-32. (ISSN 2231-5780, UGC approved journal No: 48877)</i>

25	2018	Waciko, K.J and <b>Ismail B</b> "SARIMA-ELM Hybrid Model for Forecasting Tourist in Nepal"	<i>RESEARCH REVIEW International Journal of Multidisciplinary, Vol. 3 (7), pp.343-349., (ISSN: 2455-3085, UGC approved journal No: 44945)</i>
26	2018	Satyanarayana, Swathi, <b>Ismail B.</b> "Statistical Analysis of Foodgrain prices in Karnataka"	<i>RESEARCH REVIEWS- International Journal of Multidisciplinary, Vol.3, Issue8 ISSN 2455-3085 UGC approved journal No: 44945)</i>
27	2018	Harsha S, <b>Ismail B</b> and Sinchana N. "Statistical Analysis on Price series of Arecanut"	<i>Journal of Emerging Technologies and Innovative Research. Vol.5 (8), pp.993-1004.</i>
28	2018	Dileep Kumar Shetty and <b>Ismail B,</b> "Hybrid model approach for Accuracy in Forecasting"	<i>Journal of the Indian Society for Probability and Statistics, Vol. 19, pp417-435, Springer India</i>
29	2017	Harsha S and Ismail B "Improved Test For Detecting Explosive Bubbles"	<i>Journal of Data Science. Vol.16 (3), pp 495-508.</i>
30	2017	Harsha S and <b>Ismail B</b> "Detecting Speculative Bubble: Power Comparison Of Unit Root Tests"	<i>International Journal of Statistics and Systems. Vol. 12(3), pp.499-507.</i>
31	2016	Harsha S and <b>Ismail B</b> "Duration Dependence Test to Detect Financial Bubble using Generalized Logistic Hazard Function"	<i>International Journal of Finance and Quantitative Methods. Vol. 39 (1), pp 1103-1107.</i>
32	2016	<b>B Ismail</b> and M Suvarna "Estimation of Linear Regression Model with Correlated Regressors in the Presence of Autocorrelation"	<i>International Journal of Statistics and Applications. Vol. 6 (2), pp 35-39. Scientific and Academic Publications. (p-ISSN 2168-5193). IF 0.59</i>
33	2014	<b>Ismail B</b> and Manjula Anil "Regression methods for analyzing the risk factors for a life style disease among the young population of India"	<i>Indian Heart Journal Vol.66, pp587-592, Elsevier publication. IF 0.607</i>
34	2014	<b>Ismail B</b> and Ashwini Kumari "Semi parametric estimation of Volatility"	<i>International Journal of Mathematical Archive 5 (9), pp 65-72.</i>



35	2013	<b>Ismail B</b> and Vidya Bai G “Estimating Value at Risk in Financial Assets; A Parametric and Non-Parametric Approach”	<i>International Journal of Mathematical Archive (IJMA), Vol.No.4, pp156-161, ISSN 2229-5046.</i>
36	2013	Ataulla, <b>Ismail B</b> , Mohd.Yunus “An enhanced least square algorithm based spectral estimation with neural networks”.	<i>International Journal of Statistics and Systems.(ISSN 0973-2675) Volume 8, Number 1, pp.15-27</i>
37	2012	Ataulla, <b>Ismail B</b> , Mohd. Yunus. “Genetic algorithm and neural base enhanced least square algorithm for spectral estimation”	<i>International Journal of Statistics and Analysis.(ISSN 2248-9959) Volume 2, Number 5 , pp. 509-525)</i>
38	2012	Vidya Bai G and <b>Ismail B</b> Portfolio Analysis-Diversification Techniques; an Empirical Evaluation of Alternative Financial portfolio Models”	<i>Global Journal of Management Science and Technology Vol.1 Issue 10. November 2012. (ISSN 2277-5978)</i>
39	2012	<b>Ismail B</b> and Anjum Khan, ‘Detection of Jump and Cusp using Harr Wavelets in regression function’	<i>Journal of Wavelet Theory and Applications Vol.6, No.1, 2012, pp 33-38</i>
40	April 2012	<b>Ismail B</b> and Anjum Khan, ‘Image De-noising with a New Threshold Value	<i>Journal of Data Science Vol.10.No.2, pp259-270, IF 0.79</i>
41	January 2012	<b>Ismail B</b> and Anjum Khan, “Image De-noising with stationary wavelet transform,’	<i>Journal of Wavelet Theory and Application, Vol.5, No.1, pp9- 14, January 2012</i>
42	2009	Jose C T., Ravi Bhat., <b>Ismail B</b> and Jayashekhar “Spatial Smoothing Techniques in field experiments”	<i>Journal of the Indian Society of Agricultural Statistics, Vol.63 (2), pp 151-157, ISSN-0019-6363</i>
43	2008	Jose C.T., <b>Ismail B</b> and Jayasekhar “Trend, Growth Rate and Change Point Analysis - A Data Driven Approach”	<i>Communications in Statistics Simulation and Computation, Vol. 37 , Issue 3, pp498-506 Taylor and Francis group IF 0.49</i>
44	2007	Bock M, Bowman A.W. and <b>Ismail B</b> “Estimation and inference for error variance in bivariate non- parametric regression”	<i>Statistics and Computing, Springer, Netherlands vol.17 pp 39-47, IF 2.383</i>

45	2006	Bowman A.W.,Pope A. and <b>Ismail B</b> “Detecting discontinuities in nonparametric regression curves and surfaces”	<i>Statistics and Computing, Springer, Netherlands vol.16 pp 377-390., IF 2.383</i>
46	2001	Jose CT and <b>Ismail B</b> “Non-parametric Inference on Jump Regression Surface”	<i>Journal of Non-parametric Statistics, Vol.13, pp791-813,Taylor and Francis group, IF 0.708</i>
47	2000	Jose CT and <b>Ismail B</b> “Non-parametric Inference on Change points in regression”	<i>Statistical Methods,(India) Vol 2, No.2, pp 141-158</i>
48	1999	Jose CT and <b>Ismail B</b> “Change Points in Nonparametric regression function”	<i>Communications in Statistics,Theory and Methods, 28, No.8, pp 1883-1902, Taylor and Francis group, 0.424</i>
49	1997	Jose CT and <b>Ismail B</b> “Estimation of Jump points in nonparametric regression through residual analysis”	<i>Communications in Statistics, Theory and Methods, 26, No.11, pp 2583 – 2607, Taylorand Francis group, IF 0.424</i>
50	1992	<b>Ismail B</b> and Achary KK “On the admissibility of mixed regression estimators,”	<i>Journal of Quantitative Economics,(India) vol 8, No.2.pp 383-390. Springer IF 1.633</i>

#### PUBLICATIONS IN EDITED BOOKS

51. C T Jose and **B Ismail** (2007): ‘Estimation of Error Correlation in Nonparametric Regression’ In:‘Correlated Data Modelling 2004’ Edited by Daria Gregori, Gilbert MacKenzie, Herwig Friedl and Robert Corradetti, published by Franco Angeli, Italy,2007, pp33-39.
52. Harsha S and **Ismail B** (2018), Detecting Speculative Bubble : Power Comparison of Unit Root Tests. Advanced Mathematics: Theory and Applications (Volume-II). Vivekananda Publications, New Delhi. ( ISBN: 978-93-87374-33-1)

#### PUBLICATIONS IN REFEREED CONFERENCE PROCEEDINGS:

53. C T Jose and **B Ismail** (2001) Change Points in Nonparametric regression, In Bulletin of the International Statistical Institute, 53<sup>rd</sup> Session of ISI, Contributed papers, Book1, August 2001, Seoul, South Korea.
54. C T Jose and **B Ismail** (2001) Non-parametric estimation of discontinuous spatial functions In. Proceedings of the conference on Agricultural and Environmental Statistical Applications, June 2001, Rome, Italy.
55. **Ismail B** and Vidya Bai G (2010): ‘Nonparametric Analysis of Financial Data’,

Proceedings of National Seminar on New trends in Applied Statistical Methodology, Nirmala Academic and Research Publications, Nirmala College, Muvatupuram, Feb 25-27, 2010.

56. **Ismail B** and Anjum Khan (2010) : 'A new threshold value in curve estimation by wavelet shrinkage', Proceedings of Xth Islamic Countries Conference on Statistical Sciences (ICCS-X), The American University in Cairo, Egypt, 2010, Vol.II, pp 786-795.
57. **Ismail B** and Laveena D'Costa (2012): ' Testing Heteroscedasticity in nonparametric regression' Proceedings of International Conference ISOS at Aligarh Muslim University, Art.33, pp1-8.

#### **PAPERS PRESENTED IN INTERNATIONAL/ NATIONAL CONFERENCES:**

1. Waciko, K.J, and **Ismail, B** (2020). "**Forecasting Gross Domestic Product (GDP) Using Shrinkage Methods**". Two- Day National Conference on Tourism and Sustainable Development-Issues Challenges and Best Practices ICSSR Sponsored, 12-13th March 2020 Department of Post Graduate Studies and Research in Economics, Mangalore University.
2. Waciko, K.J, and **Ismail, B** (2019). "**Panel Data in Tourism Demand**". International Conference on Emerging Trends in Management, Information Technology and Education, 16-17 August 2019. Srinivas University, College of Management and Commerce, city campus, Pandeshwar, Mangaluru-575001, Karnataka State, India.
3. Waciko, K.J, and **Ismail, B** (2019). "**Forecasting Tourism Demand in Bali Using THIEF-MLP Method**". International Conference on Advanced IT, Engineering and Management (SACAIM 2019), 21-22nd November 2019. St Aloysius College (Autonomous) Mangaluru & School of Information Technology and Bioinformatics and Computer Society of India AIMIT Campus Beerri, Mangalore-575022.
4. Waciko, K.J, and **Ismail, B** (2019). "**Hierarchical Forecasting for Tourist Arrivals in Indonesia**". International Conference on Recent Advances in Statistics and data Science for Sustainable Development, 21-23rd December, 2019. Department of Statistics, Utkal University, Odisha, (Accredited by NAAC with "A" Grade.) in conjunction with Indian Society for Probability & Statistics (ISPS)
5. Waciko, K.J, and **Ismail, B** (2019). "**Comparison of Ridge Regression, LASSO and Elastic Net Regression Methods in Tourism Demand**". Two- Day International Seminar on Tourism and Sustainable Development- Issues Challenges and Best Practices, ICSSR Sponsored, 27-28th December 2019 Department of MBA (Tourism and Travel Management), Mangalore University .
6. Sathyanarayana and **Ismail B** (2019) "Hybrid Model for improving Classification Accuracy" presented at International conference on International conference on Prof. C. R Rao's School of thought on Statistical Sciences Organized by Department of Statistics, Pondicherry University.
7. Waciko, K.J, and **Ismail, B.** (2018). "**Improved Forecasting Models for Tourism**". International Conference on Theory and Applications of Statistics and Information Sciences (TASIS 2018). 57, January 2018

Department of Statistics, Bharathiar University  
in conjunction with XXXVII annual convention of Indian Society for probability and statistics (ISPS) & In association with Indian Bayesian Society (IBS), Coimbatore-641 046, Tamil Nadu State, India.

8. Dileep Kumar Shetty and **Ismail. B** (2018): Hybrid Model for Accuracy in Forecasting. International Conference on Theory and Applications of Statistics and Information Sciences (TASIS-2018).5- 7,January2018.DepartmentofStatistics,BharathiarUniversity in conjunction with XXXVII annual convention of Indian Society for probability and statistics(ISPS) & In association with Indian Bayesian Society (IBS), Coimbatore-641 046, Tamil Nadu , India.
9. Waciko, K.J, and **Ismail, B** (2018).“**Comparison of SARIMA-ELM Hybrid Model and SARIMA-MLP Hybrid Model in Forecasting Tourist Arrivals**” International Conference on emerging Innovations in Statistics & Operations Research (EISOR-2018).27-30December,2018,DepartmentofStatisticsMaharshiDayananduniversity (*Accredited by NAAC with “A” Grade.*) in conjunction with 38th annual convention of Indian Society for probability and statistics (ISPS) & 4th convention of Indian association for Reliability and Statistics (IARS), Rohtak-124 001, Haryana, India.
10. Harsha, S and **Ismail, B.** (2017). A New Test for Detecting Financial Bubble. Two daysNational Seminar on Statistical Inference and Stochastic Modeling held during 22<sup>nd</sup>- 23<sup>rd</sup> February 2017 at Karnatak University Dharwad.
11. Waciko, K.J, and **Ismail, B.** (2017). “**Forecasting Tourism Demand in Bali**”. TwodayNationalConferenceonReachingtheUnreachedthroughScienceandTechnology:Recent Advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health andEnvironment,8- 9,September2017.Faculty of Science and Technology, Mangalore University in conjunction with The Indian Science Congress Association Bangalore Chapter,Mangaluru -574199, KarnatakaState, India.
12. Harsha, S and **Ismail, B.** (2017). A New Approach to detect Financial Bubble. TwodayNationalConferenceonReachingtheUnreachedthroughScienceandTechnology: Recent Advances in Physical, Chemical, Mathematical and Biological Sciences for Energy, Health and Environment, 8- 9,September 2017. Faculty of Science and Technology, Mangalore University inconjunctionwithTheIndianScienceCongressAssociationBangaloreChapter.
13. Harsha, S and **Ismail, B.** (2016). Detecting Speculative Bubble: Power Comparison of Unit Root Tests. ISSAC-2016 VIII International Symposium on Statistics and Optimization in conjunction with XXXVI-Annual Convention of Indian Society for Probability & Statistics (ISPS) and Seminar on Statistical Inference, Sampling and Optimization Techniques& Related Areas held during 17<sup>th</sup> – 19<sup>th</sup> December 2016 at A.M.U, Aligarh (Under SAP-DRS-II).
14. Dileep Kumar Shetty and **Ismail, B.** (2016): Hybrid Model to Improve the Forecast Accuracy. VIII International Symposium on Statistics and Optimization in Conjunctionwith XXXVI-Annual Convention of Indian Society for Probability & Statistics (ISPS) & Seminar on Statistical Inference, Sampling and Optimization Techniques & Related Areas. December 17-19, held at Department of Statistics Aligarh Muslim University, Aligarh UP.

15. Harsha, S and **Ismail, B.** (2015). Detecting Explosive Bubbles: A Comparative Study. International conference on “New Horizons in Statistical Modeling and Applications” (NHSMA-2015) held during 27<sup>th</sup> – 28<sup>th</sup> February 2015 at Presidency College Chennai
16. Harsha, S and **Ismail, B.** (2015). “Duration Dependence Test to Detect Financial Bubble using Generalized Logistic Hazard Function”, National conference on Recent Trends in Statistical inference and data analysis, held during 30<sup>th</sup> – 31<sup>st</sup> October 2015 at SDM PG Centre Ujire.
17. Harsha, S and **Ismail, B.** (2015). Detecting Speculative Bubble. 39<sup>th</sup> Indian Social Science Congress held during 1<sup>st</sup> -5<sup>th</sup> December 2015 at Mangalore University, Mangalagangothri.
18. Ataula and **Ismail B**(2013): Wavelets in the analysis of Autoregressive Conditional Heteroscedasticity models using Neural Network’ National Conference on Analysis and Application of Mathematics(NCAAM 2013) held at Reva Institute of Technology and Management, Bangalore, 22-23, Feb.2013.
19. Manjula Suvarna and **Ismail B**(2013): ‘Regression methods for analyzing the risk factors for a life style disease among the young population of south India’, 31<sup>st</sup> Annual Conference of Indian Medical Statistics(ISMS CON) held at Department of Biostatistics, Christian Medical College, Baghyam, Vellore -632002, Tamil Nadu, during 24-26 October 2013.
20. **Ismail B** and Ashwini Kumari (2012): “Semi-Parametric Estimation of Volatility” International conference of Frontiers of Statistics and its Applications (ICONFROST- 2012) in Conjunction with XXXII Annual Convention of Indian Society for Probability and Statistics (ISPS) at Department of Statistics, Pondicherry University, Puducherry- 605014, during Dec.21-23,2012.
21. Anjum Khan and **Ismail B**(2011) “ Detection of Jump and cusp using Haar Wavelets in a regression function” , National Conference on Recent Developments in Statistics, Dept.of Statistics, Gulbarga University, September 8-9,2011.
22. Anjum Khan and **Ismail B**(2011) “ Image denoising using stationary wavelet transform”, National Conference on Modern Trends in Science and Technology, Dr.M.V.Shetty Institute of Technology, Moodbidiri. October 14-15,2011.
23. Anjum Khan and **Ismail B** (2011)“Image Thresholding using Discrete wavelet transform”, XXXI st annual Convention of Indian Society for Probability and Statistics(ISPS), Cochin University of Science and Technology, Cochin, Dec.19-22, 2011.
24. Ashwini Kumari and **Ismail B** (2011) “ Predicting Bankruptcy using logistic regression” , XXXI st annual Convention of Indian Society for Probability and Statistics(ISPS), Cochin University of Science and Technology, Cochin, Dec.19-22, 2011.
25. **B Ismail** and Anjum Khan (2009) : ‘A new threshold value in curve estimation by wavelet shrinkage’, Tenth Islamic Countries Conference on Statistical Sciences (ICCS-X), American University in Cairo, Egypt, December 20-23, 2009.

26. **B Ismail** and Lavina C Crasta(2008): 'Test for heteroscedasticity in nonparametric regression' VI International Symposium on Optimization and Statistics(ISOS 2008), Department of Statistics and Operations Research,Aligarh Muslim University, Aligarh,29-31 December 2008.
27. C T Jose and **B Ismail** (2004): 'Estimation of Error correlation in Non-parametric regression' 2ndworkshop on Correlated Data Modeling, Scientific Meeting in Honour of Diego de Castro, Torino, held during 9th–10<sup>th</sup> January 2004.
28. **B Ismail** and R Suresh Kumar\* (2004): Inference on non-Parametric Regression with Jump Points, XXIV Annual Conference of Indian Society for Probability and Statistics and National Seminar on Recent Advances in Statistical Theory and Application, held atPalai, Kerala during 4-6 November 2004.
29. **B Ismail** and A W Bowman(2003): On variance estimation in Non-parametric Regression, XXIII Annual conference of Indian Society for Probability and Statistics,held at Nagarjuna University, Guntur, A.P., during 18-20 December 2003.
30. C T Jose and **B Ismail**(2001): Change Points in Nonparametric Regression , 53<sup>rd</sup> Session of International Statistical Institute, 22nd-29th August 2001, Seoul, South Korea.
31. **B Ismail**, M T Bock and A W Bowman(2001): Estimation of error variance in two dimensional non-parametric regression models , International Conference of Royal Statistical Society 2001 on Spatial Modelling, University of Glasgow, **Glasgow, UK**, during 4th-6<sup>th</sup> July 2001.
32. Asha Kamath and **B Ismail** (1998):Multicollinearity in varying coefficient repeated measures regression model , 34<sup>th</sup> Annual conference of the Indian Econometric Society held during March 27-30, 1998 at Mangalore University.
33. C T Jose and **B Ismail**(1998): Nonparametric Regression estimation with correlated errors, National Seminar on Stochastic Systems during February 5 -7, 1998, Mangalore University.
34. **B Ismail** and C T Jose(1998):Change Point Analysis in Regression Surface, International Conference on Combinatorics, Statistics, Pattern Recognition and Related Areas,University of Mysore, December 1998.
35. Asha Kamath\* and **B Ismail** (1995): Multicollinearity in repeated measures regression models), National Seminar at Shivaji University, Kolhapur.
36. K Suresh Chandra, **B Ismail** and KK Achary(1993):Least Squares estimators in autoregressive models with varying length moving average errors, International Conference of Indian Society of Probability and Statistics, during 22nd to 26th December 1993, University of Poona, PUNE.
37. **B Ismail** and K K Achary(1992):Improved estimators for coefficients in linear regression , The 1992 India and South East Asia Conference of Econometric Society, held during 19 – 21st Dec. 1992 at the Indira Gandhi Institute of Development Research, Bombay.

38. K Suresh Chandra, **B Ismail** and KK Achary (1991): Autoregressive model with varying length moving average errors), National Seminar on Statistical Inference and Related Topics, held during 7-8 March 1991 at Bangalore University.
39. **B Ismail** and K K Achary (1991): Mean Square Error Matrix Improvements and Admissibility of some biased linear estimators, XIIth Annual Conference of Indian Society for Probability and Statistics and Symposia on Stochastic Analysis and Distribution Theory, held during 9-12 Dec. 1991 at Cochin University of Science and Technology, Cochi.
40. **B Ismail\*** and K K Achary (1989): On the Admissibility of restricted least squares estimators, X Annual conference of Indian Society for Probability and Statistics and International Symposium on Stochastic Models, Analysis and Applications held during 15-19th June 1989 at Karnataka University, Dharwad.

#### **Invited Lectures:**

1. **Ismail, B (2024):** Invited lecture on “Predictive Modelling” delivered in the National Seminar on “Recent Developments in Statistical Sciences on January 20, 2024 organized by Department of Statistics, Karnatak University, Dharwad in collaboration with first convention of Karnataka state Statistics Association (KSSA).
2. **Ismail, B (2023):** Resource person in ICSSR Sponsored offline “Ten –Day Research Methodology Course (RMC) for Young Social Science Researchers” and delivered a lecture on the topic Research methodology on 29. 11. 2023 held at Department of studies in Commerce, Mangalore University, Mangalagangothri.
3. **Ismail B (2021):** Invited lecture on “Empirical likelihood Ratio test for autocorrelation in least squares regression” delivered in the International conference (virtual mode) on emerging trends in statistics and data science in conjunction with 40th annual convention of Indian society for probability & statistics (ISPS).
4. **Ismail B** Invited Lecture on “Quantile Regression” in One-day workshop at Mangalore University.
5. **Ismail B (2020):** Presented lecture on “**Regression Methods in Health Science Research**” ICSSR sponsored 10 days research methodology workshop held at Department of Human Consciousness and Yogic Science, Mangalore University during 4<sup>th</sup> to 13<sup>th</sup> March 2020.
6. **Ismail B (2015):** ‘Forecasting Financial Time Series’, UGC sponsored National Seminar on Statistical Inference and Stochastic Modelling, held at Department of Statistics, Karnataka University Dharwad, during 25-28 Feb. 2015,
7. **B Ismail (2009)** ‘Change Points in non-parametric regression’, UGC sponsored National Seminar on Recent Trends in Statistics, Nehru Arts and Science College, Kanhagad, Kerala, 12-14 February 2009.
8. **B Ismail (2008):** ‘Discontinuities in Non-parametric regression curves and surfaces’ National Seminar on Recent Advances in Statistics and Analysis of Non-Conventional data and Annual Conference of Kerala Statistical Association, Farook College, Kozhikode,

Kerala, 15-17<sup>th</sup> March 2008.

9. **B Ismail** and C.T. Jose (2007): 'Spatial Smoothing Technique in Field Experiments' National Seminar on Frontiers in Applied Statistics and Computer Applications FASCA-07, Bharathiar University, Coimbatore, January 2007.
10. **B Ismail** (2004): "Change Point Estimation using non-parametric regression", UGC sponsored national Seminar on Recent Developments in Data collection and Analysis, held at Sardar Patel University, Gujarat, during 29th-31<sup>st</sup> January 2004.

### **Administrative experience:**

YENEPOYA (DEEMED TO BE UNIVERSITY):

- Professor and Head, Department of Statistics,
- Chairman, Board of Studies in Statistics,
- Chairperson, Faculty of Science.
- Member, Board of Examination,
- Member, Yenepoya Research Committee
- Panel Member, Doctoral A d v i s o r y Committee.

MANGALORE UNIVERSITY:

- Former Professor and Chairman, Department of Statistics,
- Chairman, Post Graduate Board of Studies in Statistics, P. G. BOE in Statistics,
- Member Academic Council, Mangalore University.
- Chairman CAS Screening Committee for promotion of teachers under UGC Career Advancement Scheme,
- Director, PRASARANGA, Mangalore University.
- Member of PGBOS in Statistics, PGBOE in Statistics, and member of BOA for selection of Faculty in Statistics for the Universities in Karnataka and other states.
- Nodal Officer, Mangalore Region for Karnataka State Eligibility Test (KSET) for appointment to the post of Assistant Professor.
- Member IQAC, Mangalore University
- President, Vishwamangala Education Society running Vishwamangala English Medium Schools and Vishwamangala Junior College, Mangalore University campus, Konaje.
- Secretary and Treasurer, Vishwamangala Education Society, Mangalore University
- University Stature Committee member, Mangalore University.
- Chairman, Mangalore University Annual Report Committee.
- Editor, Mangalore University Newsletter.



**Membership in Academic Bodies:**

1. Indian Society for Probability and Statistics (**ISPS**),
2. International Indian Statistical Association (**IISA**),
3. Kerala Statistical Association (**KSA**), and
4. Association of British Scholars (**ABS**), Mangalore Chapter

**Visits Abroad:**

1. Department of Statistics, University of Glasgow, Glasgow, Scotland U.K.
2. Department of Statistics, American University in Cairo, New Cairo, Egypt.
3. Department of Statistics, King Abdullah University, Saudi Arabia..

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Name: Ashwitha Priya Monteiro

Designation: Lecturer

Email ID: [ashwithapriya@yenepoya.edu.in](mailto:ashwithapriya@yenepoya.edu.in)

- **Educational Qualifications**

<b>Degree</b>	<b>Specialization</b>	<b>College</b>	<b>University</b>	<b>Year</b>
B.Ed.	Physics and Mathematics	Government College of Teacher Education (GCTE)	Mangalore University	2023
M.Sc.	Statistics	Mangalore University	Mangalore University	2020
B.Sc.	Mathematics, Physics, Statistics.	St. Agnes college (Autonomous) Mangalore	Mangalore University	2018

- **Past Experience**

<b>Designation</b>	<b>Institution</b>	<b>Tenure</b>	
		<b>From</b>	<b>To</b>
Lecturer	YENEPOYA ( Deemed to be University), Mangalore	April 2023	Till date

**Name: Mrs. Sabiha Banu**

Designation: Lecturer

Email ID: [sabihakudroli85@gmail.com](mailto:sabihakudroli85@gmail.com).

• **Educational Qualifications**

<b>Degree</b>	<b>Institute</b>	<b>Specialisation</b>	<b>Year of Passing</b>
B.Sc.	Besant women's College	Computer Science, Statistics, Mathematics	2007
M. Sc.	Mangalore University,	Statistics,	2008

**Teaching Experience:**

Total Teaching Experience: **02 years 5 months**

**Work Experience Details**

<b>Designation</b>	<b>Department</b>	<b>Institution</b>	<b>Period</b>	
			<b>From</b>	<b>To</b>
Lecturer	Department of Statistics	P.A College of Engineering	June 2011	May 2012
Faculty of Mathematics		PACE International school, Sharjah	June 2016	October 2017
Lecturer	Department of Statistics	Yenepoya (Deemed to be) University, Deralakatte, Mangalore	17 <sup>th</sup> April 2023- Present	-Till date

Name: Yashaswini

Designation: Assistant Professor

Email ID: [yashaswinik33@gmail.com](mailto:yashaswinik33@gmail.com)

- **Educational Qualifications**

Degree	Specialization	College	University	Year
M.Sc.	Statistics	Mangalore University	Mangalore University	2019
B.Sc.	Mathematics, Physics, Statistics	St. Agnes College (Autonomous)	Mangalore University	2017

- **Past Experience**

Designation	Institution	Tenure	
		From	To
<b>Assistant Professor</b>	Yenepoya (Deemed to be) University	30 <sup>th</sup> August 2021	Present
<b>Guest Faculty/ Statistician</b>	Yenepoya (Deemed to be) University	2 <sup>nd</sup> November 2020	29 <sup>th</sup> August 2021.
<b>Guest Faculty</b>	Mangalore University,	August 2019	October 2020

### **Awards and Recognition**

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- Qualified KSET in general category in 2020.
- Prof. B.R. Bhat Commemoration Award in M.Sc. Statistics (Topper in Probability Theory)
- Dr. K.M. Pai Cash Prize in M.Sc. (Statistics) First Rank
- Best All Round Science Student in B.Sc, 2017