# Faculty details

**Name**

Dr Ismail B
Professor & HOD
Department of Statistics
Yenepoya (Deemed to be University)
 Mangalore, Karnataka.

Former Professor and Chairman
Department of Post Graduate Studies and Research in Statistics,
Mangalore University, Mangalagangothri, Karnataka.

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

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

**Area of Research interest**
  - Regression Analysis
  - Generalized Linear models
  - Nonparametric Regression
  - Econometrics & Financial Time Series

**FELLOWSHIP AND RECOGNITIONS:**

- 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.

Life member of various academic bodies such as Indian Society for Probability and Statistics (**ISPS**), International Indian Statistical Association (**IISA**), Kerala Statistical Association (**KSA**), and Association of British Scholars (**ABS**), Mangalore Chapter

**Teaching Experience:**

Teaching Post graduate courses in Statistics for the last**39 years**

| Designation | Department | Institution | Period | |
|---|---|---|---|---|
| | | | **From** | **To** |
| **Professor of Statistics** | **Department of Statistics** | **YENEPOYA (Deemed to be University), Mangalore.** | **June 2019** | **Till Date** |
| **Professor of Statistics** | **Department of Post-Graduate Studies and Research in Statistics** | **Mangalore University, Mangalagangothri.** | **August 2005** | **April 2019** |
| **Reader in Statistics** | **Department of Post-Graduate Studies and Research in Statistics** | **Mangalore University** | **August 1997** | **July 2005** |
| **Senior Lecturer in Statistics** | **-do-** | **Mangalore University** | **1993** | **1997** |
| **Lecturer in Statistics** | **-do-** | **Mangalore University** | **July 1985** | **Jan.1993** |
| **Lecturer in Statistics** | **Department of Statistics** | **Acharya Nagarjuna University, Vijayawada, A.P.** | **April 1985** | **June 1985** |
| **Lecturer in Statistics** | **Department of Post-Graduate Studies and Research in Statistics** | **Mangalore University, Mangalagangothri** | **October 1981** | **March 1985** |

## RESEARCH:

Main research work focuses on Nonparametric regression. Worked on modelling 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. Also Worked on Financial Time series
and developed models and methods that improved accuracy in forecasting. Published
**47** research papers in National/International Journals many 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. Successfully
guided**07** scholars for their **Ph.D. degree**.

## Research Publications in Refereed Journals: 47

| Sl. No | Date | Title | Name of Journal | Refereed journal or not | Number of Citations | Impact factor, if available |
|---|---|---|---|---|---|---|
| 1 | 1992 | **Ismail B** and Achary KK "On the admissibility of mixed regression estimators, | *Journal of Quantitative Economics,(India)  vol8, No.2.* pp 383-390. Springer | Refereed | | 1.633 |
| 2 | 1997 | Jose CT and **Ismail B** "Estimation of Jump points in nonparametric regression through residual analysis" | *Communications in Statistics, Theory and Methods, 26, No.11, pp 2583 – 2607, Taylor and Francis group* | Refereed | 05 | 0.424 |
| 3 | 1999 | Jose CT and **Ismail B** "Change Points in Nonparametric regression function" | *Communications in Statistics, Theory and Methods, 28, No.8, pp 1883-1902, Taylor and Francis group* | Refereed | 19 | 0.424 |
| 4 | 2000 | Jose CT and **Ismail B**"Non-parametric Inference on Change points in regression" | *Statistical Methods,(India) Vol 2, No.2,  pp 141-158* | Refereed | | |
| 5 | 2001 | Jose CT and **Ismail B** "Non-parametric Inference on Jump RegressionSurface " | *Journal of Non-parametric Statistics, Vol.13, pp791-813, Taylor and Francis group* | Refereed | 06 | 0.708 |
| 6 | 2006 | Bowman A.W., | *Statistics and Computing,* | Refereed | 38 | 2.383 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | Pope A. and **Ismail B** "Detecting discontinuities in nonparametric regression curves and surfaces" | *Springer, Netherlands    vol.16 pp 377-390.* | | | |
| 7 | 2007 | Bock M, Bowman A.W. and **Ismail B** "Estimation and inference for error variance in bivariate non-parametric regression" | *Statistics and Computing, Springer, Netherlands  vol.17 pp 39-47* | Refereed | 11 | 2.383 |
| 8 | 2008 | Jose C.T., **Ismail B** and Jayasekhar "Trend, Growth Rate and Change Point Analysis - A Data Driven Approach" | *Communications in Statistics Simulation and Computation, Vol. 37 , Issue 3, pp498-506 Taylor and Francis group* | Refereed | 07 | 0.49 |
| 9 | 2009 | Jose C T., Ravi Bhat., **Ismail B** and Jayashekhar "Spatial Smoothing Techniques in field experiments" | *Journal of the Indian Society of Agricultural Statistics, Vol.63 (2), pp 151-157, ISSN-0019-6363* | Refereed | 01 | |
| 10 | January 2012 | **Ismail B** and Anjum Khan, "Image De-noising with stationary wavelet transform,' | *Journal of Wavelet Theory and Application, Vol.5, No.1, pp9-14, January 2012* | Refereed | | |
| 11 | April 2012 | **Ismail B** and Anjum Khan, 'Image De-noising with a New Threshold Value | *Journal of Data Science Vol.10.No.2, pp259-270,* | Refereed | 24 | 0.79 |

| | | using Wavelets' | | | | |
|---|---|---|---|---|---|---|
| 12 | 2012 | **Ismail B** and Anjum Khan, 'Detection of Jump and Cusp using Harr Wavelets in regression function' | *Journal of Wavelet Theory and Applications Vol.6,No.1, 2012, pp 33-38* | Refereed | | |
| 13 | 2012 | Vidya Bai G and **Ismail B** Portfolio Analysis-Diversification Techniques; an Empirical Evaluation of Alternative Financial portfolio Models" | *Global Journal of Management Science and Technology Vol.1 Issue 10. November 2012.* (ISSN 2277-5978) | Refereed | | |
| 14 | 2012 | Ataulla, **Ismail B,**Mohd.Yunus. "Genetic algorithm and neural base enhanced least square algorithm for spectral estimation" | *International Journal of Statistics and Analysis.(ISSN 2248-9959) Volume 2, Number 5 , pp. 509-525)* | Refereed | | |
| 15 | 2013 | Ataulla, **Ismail B**, Mohd.Yunus "An enhanced least square algorithm based spectral estimation with neural networks". | *International Journal of Statistics and Systems.(ISSN 0973-2675) Volume 8, Number 1, pp.15-27* | Refereed | | |
| 16 | 2013 | **Ismail B** and Vidya Bai G "Estimating Value at Risk in Financial Assets; A Parametric and Non-Parametric | *International Journal of Mathematical Archive (IJMA), Vol.No.4, pp156-161, ISSN 2229-5046.* | Refereed | | |

|  |  | Approach" |  |  |  |  |
|---|---|---|---|---|---|---|
| `17 | 2014 | **Ismail B** and AshwiniKumari "Semi parametric estimation of Volatility" | *International Journal of Mathematical Archive 5 (9), pp 65-72.* | Refereed |  |  |
| 18 | 2014 | **Ismail B** and Manjula Anil "Regression methods for analyzing the risk factors for a life style disease among the young population of India" | *Indian Heart Journal Vol.66, pp587-592, Elsevier publication.* | Refereed | 03 | 0.607 |
| 19 | 2016 | **B Ismail** and M Suvarna"Estimatio n of Linear Regression Model with Correlated Regressors in the Presence of Autocorrelation" | *International Journal of Statistics and Applications. Vol. 6 (2), pp 35-39.* Scientific and Academic Publications. (p-ISSN 2168-5193). | Refereed | 01 | 0.59 |
| 20 | 2016 | Harsha S and **Ismail B** "Duration Dependence Test to Detect Financial Bubble using Generalized Logistic Hazard Function" | *International Journal of Finance and Quantitative Methods. Vol. 39 (1), pp 1103-1107.* | Refereed |  |  |
| 21 | 2017 | Harsha S and **Ismail B** "Detecting Speculative Bubble: Power Comparison Of Unit Root Tests" | *International Journal of Statistics and Systems. Vol. 12 (3), pp.499-507.* | Refereed |  |  |
| 22 | 2017 | Harsha S and | *Journal of Data Science. Vol.16* | Refereed |  |  |

| | | **Ismail B** "Improved Test For Detecting Explosive Bubbles" | *(3), pp 495-508.* | | | |
|---|---|---|---|---|---|---|
| 23 | 2018 | Dileep Kumar Shetty and **IsmailB,** "Hybrid model approach for Accuracy in Forecasting" | *Journal of the Indian Society for Probability and Statistics, ,* Vol. **19,** pp417-435, Springer India | Refereed | | |
| 24 | 2018 | Harsha S, **Ismail B** and Sinchana N. "Statistical Analysis on Price series of Arecanut" | *Journal of Emerging Technologies and Innovative Research.* ***Vol.5 (8)***, *pp.993-1004.* | Refereed | | |
| 25 | 2018 | Satyanarayana, Swathi, **Ismail B.** "Statistical Analysis of Food grain prices in Karnataka" | *RESEARCH  REVIEWS-International Journal of Multidisciplinary*, Vol.**3,** Issue 8 ISSN 2455-3085 UGC approved journal No: 44945*)* | Refereed | | |
| 26 | 2018 | Waciko, K.J and **Ismail B** "SARIMA-ELM Hybrid Model for Forecasting Tourist in Nepal" | *RESEARCH  REVIEW International Journal of Multidisciplinary, Vol. 3 (7), pp.343-349., (ISSN: 2455-3085, UGC approved journal No: 44945)* | Refereed | | |
| 27 | 2018 | Waciko, K.J and **Ismail B** "Forecasting International Tourism in  Bali" | *ZENITH International Journal of Multidisciplinary Research. Vol.8 (9), pp. 21-32. (ISSN 2231-5780, UGC approved journal No: 48877)* | Refereed | | |
| 28 | 2019 | DK Shetty and **Ismail B** "Forecasting Financial time series using a | *International Journal of Computer Science and Engineering, ISSN 2349-2693* | Refereed | | |

| | | hybrid non-stationary model with ANN" | | | | |
|---|---|---|---|---|---|---|
| 29 | 2019 | Satyanarayana, **Ismail B**, GayathriUpadhya (2018):  "Predicting the survival of ICU patients through Structural Equation Model" | *International Journal of Scientific Research in Computer Science Applications and Management Studies,* Vol.**7**, Issue No.6, ISSN 2319-1953 | Refereed | | |
| 30 | 2019 | C.T. Jose, K.P. Chandran , K. Muralidharan C, S. Sujatha and **B.Ismail**  "Robust Nonparametric Covariance Technique" | *Statistics and Applications {ISSN 2452-7395 (online)} volume 17, No. 2, 2019 (New Series), pp 37-45* | Refereed | | |
| 31 | 2019 | Waciko,J, and **Ismail B**  "Panel Data Model for Tourism Demand" | *International Journal of Scientific & 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)* | Refereed | | 0.12 |
| 32 | 2019 | Harsha S and **Ismail B** "Review on Financial Bubbles". | *Statistical Journal of the International Association for Official Statistics (IAOS.) **Vol. 35 (3)**, pp.501-510.* | Refereed | | 0.42 |

| 33 | 2020 | Waciko,J, and **Ismail B** "SARIMA-ELM hybrid model versus SARIMA-MLP hybrid model". | International Journal of Statistics and Applied Mathematics; 5 (2): 01-08(ISSN: 2456-1452, | Refereed | | |
|----|------|------|------|------|---|------|
| 34 | 2020 | Waciko, K.J and **Ismail B** "Forecasting Tourist Arrival to Bali-Indonesia from 3 Countries Using Thief Hybrid Method".. | *International Journal of Scientific and Technology Research*, Volume **09**,Issue 02,, pp. 1720-1725, (ISSN 22778616, (*Indexed in Scopus, a part of Group A of UGC CARE List No:208).* | Refereed | | o.12 |
| 35 | 2020 | Waciko, K.J, and **IsmailB,** "Performance of Shrinkage methods for Forecasting GDP". | *International Journal of Advanced Science and Technology* (IJAST).Vol.**29**,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)* | | | 0.11 |
| 36 | 2020 | Godfrey Joseph Saqware,and**Ismail B**, "Modeling Volatility in the Stock Market for Accuracy in Forecasting". | *International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878,* Volume-**8** Issue-5, page 41-49 | Refereed | | |
| 37 | 2020 | Ashok W. Dsouza, **Ismail B** (2020) | "International journal of recent Technology and | Refereed | | |

| | | "Mutual fund rating predication using proportional odds logistic regression with imbalanced class | Engineering (IJRTE)., ISSN:2277-3878, Vol-8, Issue-5S, January 2020 | | | |
|---|---|---|---|---|---|---|
| 38 | 2021 | DK Shetty and **B Ismail** "Forecasting stock prices using hybrid non-stationary time series model with ERNN'' | Journal of Communications in Statistics-Simulation and Computation DOI: OR/10.1080/0310918.2021.18 72b31 Taylor & Francis Q4.wos, SCOPUS(Q3). January 2021 | Refereed | | |
| 39 | 2021 | Satyanarayana and **Ismail B** "Hybrid Model for Improving Classification Accuracy" | *Stochastic Modeling And Applications* Vol. **25** No. 1 (January-June, 2021) | Refereed | | |
| 40 | 2021 | Satyanarayana and **Ismail B** "Linear structural equations with latent variables" | *International journal of Agricultural and Statistical Sciences* Vol.**17**, No.1,pp.293-300 | Refereed | | |

## PUBLICATIONS IN EDITED BOOKS

**41.** 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.

**42.** 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:**

**43.** C T Jose and B Ismail (2001) Change Points in Nonparametric regression, In Bulletin of the International Statistical Institute, 53$^{rd}$ Session of ISI, Contributed papers, Book1, August 2001, Seoul, South Korea.

**44.** 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.

**45.** 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.

**46.** Ismail B and AnjumKhan(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.

**47.** Ismail B and LaveenaD'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)UsingShrinkageMethods".**Two-DayNationalConferenceonTourismandSustainable Development-Issues Challenges and Best Practices, ICSSR Sponsored,12-13thMarch2020DepartmentofPostGraduateStudiesandResearchinEconomics,Mangalore University(*AccreditedbyNAACwith "A"Grade).*

2) Waciko, K.J, and **Ismail, B** (2019).**"Panel Data in Tourism Demand"**. InternationalConferenceonEmergingTrendsinManagement,InformationTechnologyandEducation, 16-17 August 2019. Srinivas University, College of Management andCommerce,citycampus,Pandeshwar, Mangaluru-575001,KarnatakaState,India.

3) Waciko, K.J, and **Ismail, B** (2019). **"Forecasting Tourism Demand in Bali UsingTHIEF-MLP Method"**. International Conference on Advanced IT, Engineering andManagement(SACAIM2019),21-22ndNovember2019.StAloysiusCollege(Autonomous)Mangaluru&SchoolofInformationTechnology and Bioinformatics and Computer Society of India,

AIMITCampusBeeri,Mangalore-575022.

4) Waciko, K.J, and **Ismail, B** (2019). **"Hierarchical Forecasting for Tourist Arrivalsin Indonesia"**. International Conference on Recent Advances in Statistics and dataScienceforSustainableDevelopment,21-23rdDecember,2019.DepartmentofStatistics,UtkalUniversity,Odisha,(*AccreditedbyNAACwith"A"Grade.*)inconjunctionwithIndianSocietyforProbability& Statistics (ISPS)

5) Waciko, K.J, and **Ismail, B** (2019). **"Comparison of Ridge Regression, LASSO andElasticNetRegressionMethodsinTourismDemand".**Two-DayInternationalSeminaronTourismandSustainableDevelopment-IssuesChallengesandBestPractices, ICSSR Sponsored, 27-28th December 2019 Department of MBA (TourismandTravelManagement),MangaloreUniversity(*AccreditedbyNAACwith"A"Grade).*

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 InformationSciences(TASIS-2018).5-7,January2018.DepartmentofStatistics,BharathiarUniversity in conjunction with XXXVIIannualconventionofIndianSocietyforprobabilityandstatistics(ISPS)&Inassociation with Indian Bayesian Society (IBS), Coimbatore-641 046, Tamil NaduState,India.

8. Dileep Kumar Shetty and **Ismail. B** (2018): Hybrid Model for Accuracy in Forecasting. International Conference on Theory and Applications of Statistics and InformationSciences(TASIS-2018).5-7,January2018.DepartmentofStatistics,BharathiarUniversity in conjunction with XXXVIIannualconventionofIndianSocietyforprobabilityandstatistics(ISPS)&Inassociation with Indian Bayesian Society (IBS), Coimbatore-641 046, Tamil NaduState,India.

9. Waciko, K.J, and **Ismail, B** (2018**)."Comparison of SARIMA-ELM Hybrid Modeland SARIMA-MLP Hybrid Model in Forecasting Tourist Arrivals"** InternationalConference on emerging Innovations in Statistics & Operations Research (EISOR-2018).27-30December,2018,DepartmentofStatisticsMaharshiDayananduniversity (*Accredited by NAAC with "A" Grade.)* in conjunction with 38th annualconvention of Indian Society for probability and statistics (ISPS) & 4th convention ofIndian association for Reliability and Statistics (IARS), Rohtak-124 001, HaryanaState,India.

10. Harsha, S and **Ismail, B.** (2017). A New Test for Detecting Financial Bubble. Two days National Seminar on Statistical Inference and Stochastic Modeling held during 22nd-23rd 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 BiologicalSciencesforEnergy,HealthandEnvironment,8-9,September2017.FacultyofScienceandTechnology,MangaloreUniversity inconjunctionwithTheIndianScienceCongressAssociationBangaloreChapter,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 BiologicalSciencesforEnergy,HealthandEnvironment,8-9,September2017.FacultyofScienceandTechnology,MangaloreUniversity 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 17th – 19th 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 Conjunction with 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 27th – 28th  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 30th – 31st October 2015 at SDM PG Centre Ujire.

17. Harsha, S and **Ismail, B.** (2015). Detecting Speculative Bubble. 39th Indian Social Science Congress held during 1st -5th December 2015 at Mangalore University, Mangalagangothri.

18. Ataulla 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. ManjulaSuvarna and **Ismail B**(2013): 'Regression methods for analyzing the risk factors for a life style disease among the young population of south India', 31st 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 AshwiniKumari (2012): "Semi-Parametric Estimation of Volatility" International conference of Frontiers of Statistics and its Applications (ICONFROST-2012) in Conjuction 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)"ImageThresholding using Descrete 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. AshwiniKumari 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 innonparametric 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, Torinao, held during 9th–10th 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 at Palai, 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$^{rd}$ 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$^{th}$ July 2001.

32. Asha Kamath and **B Ismail**( 1998):Multicollinearity in varying coefficient repeated measures regression model , 34$^{th}$ 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 22ndto 26thDecember 1993, University of Poona, PUNE.

37. **B Ismail** and K KAchary(1992):Improved estimators for coefficients in linear regression , The 1992 India and South East Asia Conference of Econometric Society, held during 19 -21stDec. 1992 at the Indira Gandhi Institute of Development Research, Bombay.

38. K Suresh Chandra, **B Ismail**and  KKAchary (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 KAchary(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 KAchary(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** (2019): **"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 4th to 13th March 2019.

2. **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,

3. **Ismail B** and Ashwinikumari (2015): 'Forecasting Seasonal Volatility Models', UGC sponsored National Seminar on Applications of Statistics in Research, Planning and Industry, held at Department of Statistics, Mount Carmel College, Autonomous, Bangaluru, during February 05-07, 2015.

4. **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.

5. **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, 15-17th March 2008.

6. **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.

7. **B Ismail** (2004):"Change Point Estimation using non-parametric regression",UGCsponsored national Seminar on Recent Developments in Data collection and Analysis, held at Sardar Patel University, Gujarat, during 29th-31st 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  Committee.

**MANGALORE UNIVERSITY**:

- Former Professor and Chairman, Department of Statistics,
- Chairman, Post Graduate Board of Studies in Statistics,
- Chairman, 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, Kerala and Maharashtra 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.
- Secretory and Treasurer, Vishwamangala Education Society, Mangalore University Campus.
- University Stature Committee member, Mangalore University.
- Chairman, Mangalore University Annual Report Committee.
- Editor, Mangalore University Newsletter.

**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..

**Name**

Mr. Balakrishna
Lecturer
Department of Statistics
Yenepoya (Deemed to be University)
Mudipu

# Educational Qualification: M.Sc.

| Degree | Institute | Specialisation | Year of Passing |
|--------|-----------|----------------|-----------------|
| MS.c | Gulbarga University | Statistics | 2011-12 |

**Area of Research Interest**

➢ Multivariate Analysis
➢ Regression Models

**Teaching Experience:**

Total Teaching experience: **08 years**

| Designation | Department | Institution | Period | |
|-------------|------------|-------------|--------|--|
| | | | **From** | **To** |
| Lecturer | **Department of Management Studies** | S.B. College of Post-graduation, Kalaburagi | August 2012 | August 2013 |
| Statistician cum Lecturer in Statistics | **Department of Community Medicine** | SIMS & RH, Tumkuru, Karnataka | January 2014 | July 2015 |
| Statistician cum Lecturer in Statistics | **Department of Community Medicine** | BMCH, Chitradurga, Karnataka | August 2015 | October 2015 |
| Statistician | **Department of Community Medicine** | GIMS, Kalaburagi, Karnataka | November 2015 | December 2018 |
| Lecturer cum Statistician | **Department of Community Medicine** | YMC, Deralakatte | January 2019 | May 2020 |
| Lecturer | **Department of Statistics** | YENEPOYA(Deemed to be University),Derlakatte | May 2020 | Till date |

## Research Publications in Refereed Journals: 05

| Sl. No | Date | Title | Name of Journal | Refereed journal or not | Number of Citations | Impact factor, if available |
|---|---|---|---|---|---|---|
| 1 | 2015 | MahadevaAmruth, MullikSagorika, **Balakrishna** "Assessment of awareness about cardiovascular risk and factors association between overweight and family history of cardiovascular disease among first year medical students of a medical college in Karnataka using SPSS 20.0 | *International Journal of Medical Science and Public Health Vol:4(1);92-6.* | | | |
| 2 | 2019 | Pavithra H, Nirgude AS, **Balakrishna AG**, Bijali N, Revathi TM, Yatnatti SK "Are the medical interns ready to deal with the treatment, prevention and control of Nipah virus infection at the tertiary care hospital?. Journal of family medicine and primary care | *Journal of family medicine and primary care, Vol ;8(11):3653* | | | |

| 3 | 2020 | Badiadka KK, Pramod KL, Achummantakath H, **Balakrishna AG** "Retrospective analysis of pattern of injuries in medicolegal cases" | *Journal of Indian Academy of Forensic Medicine. 2020;42(3):207-10* | | | |
|---|------|------|------|---|---|---|
| 4 | 2020 | Adhikari S, Ismail IM, Nandy S, Revathi TM, **Balakrishna AG**, Shajahan F, Neema F "Are the Nurses Working in Tertiary Care Settings Ready to Deal with the Prevention and Control of COVID-19? A Knowledge and Attitude Assessment Study from Mangaluru, India. Annals of Community Health | *Oct 1;8(3):56-6* | | | |
| 5 | 2021 | Sahana K S,Anitha S Prabhu, Prakash R M Saldanha, Shyam M K Sudhir, Balakrishna Gurmitkal " Clinical and Laboratory profile of children with COVID-19 admitted at a tertiary care Hopspital in Karanataka, Southern India'' | *Sri Lankha Journal of Child Health, 2021;50(3):503-509* | | | |

**Name**

Yashaswini

Assistant Professor
Department of Statistics
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Residential Address:
D/O Jayaprakash
Near MahadevaBhajanaMandira
Devinagara, Talapady
575023

## Educational Qualification: M.Sc.

| Degree | Institute | Specialisation | Year of Passing |
|--------|-----------|----------------|-----------------|
| M. Sc. | Mangalore University | Statistics | 2019 |
| B.Sc. | St. Agnes College, Mangalore | Physics, Statistics, Mathematics | 2017 |

**Awards and Recognition**

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

**Teaching Experience:**

Teaching Post graduate courses in Statistics for the last   **02  month  years**

| Designation | Department | Institution | Period | |
|---|---|---|---|---|
| | | | **From** | **To** |
| **Guest Faculty** | Department of Statistics | Mangalore University, Mangalore during | August 2019 | October 2020 |
| **Guest Faculty/ Statistician** | Department of Statistics | Yenepoya (Deemed to be) University, Deralakatte, Mangalore | November 2020- 29th | August 2021. |
| **Assistant Professor** | Department of Statistics | Yenepoya (Deemed to be) University, Deralakatte, Mangalore | 30th August 2021- Present | -Till date |

**Name**

Ms. Seema Patil
Lecturer
Department of Statistics
Yenepoya (Deemed to be University)
Mudipu

| Degree | Institute | Specialisation | Year of Passing |
|--------|-----------|----------------|-----------------|
| M. Sc. | Manipal Academy of higher education | Bio-Statistics | 2018 |
| B.Sc. | Poorna Prajna College | Physics, Statistics, Mathematics | 2016 |

**Area of Interest:**
- Epidemiology and Clinical Trails
- Linear Models

**Teaching Experience:**

Total Teaching Experience : **02  years**

**Work Experience Details**

| Designation | Department | Institution | Period | |
|-------------|------------|-------------|--------|--|
| | | | **From** | **To** |
| Lecturer cum statistician | **Department of Community Medicine** | Yenepoya Medical College , Deralakatte | March 2019 | May 2020 |
| Lecturer | **Department of Statistics** | Department of Statistics , Yenepya(Deemed to be University) | May 2020 | Till date |

# Research Publications in Refereed Journals: 03

| Sl. No | Date | Title | Name of Journal | Refereed journal or not | Number of Citations | Impact factor, if available |
|---|---|---|---|---|---|---|
| 1 | 2020 | MdTaberjAlam, Venkatesh G. Kamath, Hema N, A.K. Srivastav, Seema Patil, "A Study on Differences in the Obliteration of Cranial Sutures and Their Clinical Significance" | *Journal of the Anatomical Society of India; volume 69; June 30,2020:97-102* | - | - | - |
| 2 | 2021 | Raghavendra U, Vijaya Kumar, Anupama Rao, Rajesh Shankar Kashyap, Subramaniam Rao, Vinita Boloor, SeemaPatil "Awareness and practice regarding periodontal health and oral hygiene among Medical, Ayurveda and Homeopathy undergraduate students of Yenepoya University" | Journal of Evaluation Med Dental Science /Vol.10/Issue:27/July 5,2021 | - | - | - |

| 3 | 2021 | Anupama Rao, Arya Raju, rajeshKashyap, Vijaya Kumar, Vinita Boloor, SeemaPatil "Impact of passive music intervention in self-reported dental anxiety patients undergoing ultrasonic scaling procedure | *Journal Oral Health Oral Epidemiology/Winter 2021;Vol.10,No.1 23* | - | - | - |