

Dr. R. Vidya

Professor

Department of Statistics

Yuvaraja's College

(A Constituent Autonomous College of University of Mysore)

Mysuru - 570 005, INDIA.



+ 91 9448977945



drvidyalaraju02@gmail.com,
rvidya@ycm.uni-mysore.ac.in

KEY RESEARCH AREAS:

- ❖ Statistical Quality Control
- ❖ Multiple and Count regression

LIST OF PUBLICATIONS:

- (1) Vidya, R., Raju C., *Design Of Two-Stage Chain Sampling Plans With Kullback-Leibler Information*, *Advances and Applications in Statistics*, Volume 73, 2022, 47-74
- (2) Vidya, R., Raju C., *Minimum Variance and Variance of Outgoing Quality Limit (VOQL) ChSP-4A(c1, c2)r*, *Advances and Applications in Statistics*, Volume 71(2), 2022, 141-168
- (3) Satish Bhat and Vidya R., (2020), *Performance of Ridge Estimators Based on Weighted Geometric Mean and Harmonic Mean*, *JOURNAL OF SCIENTIFIC RESEARCH*, 12 (1), 1-13
- (4) Satish Bhat and Vidya R., (2019), *The Performance of a Ridge Estimator Based on Harmonic Mean*, *International Journal of Scientific Research in Research Paper . Mathematical and Statistical Sciences*, Vol.6, Issue.4, pp.70-76
- (5) Fares Hezam Al-Ostoot, Vidya R., Zabiulla, Yassr Husein Eissa Mohammed, Mahima Jyothi, Pallavi H. M., Shaukath Ara Khanum (2018), *Statistical Analysis of Antimicrobial Data of 2-[2-(Aroyloxy)methyl-1,3,4 Oxadiazoles analogues using ANOVA*, *Asian J. Research Chem* 11(2) March – April 2018, 293-297
- (6) Zabiulla, Vidya R., Fares Hezam Al-Ostoot, Mahima Jyothi, Yassr Husein Eissa Mohammed, Shaukath Ara Khanum (2018), *Analysis of Antimicrobial Data of 2-aryloxy methyl oxazoline analogues using ANOVA*, *Asian J. Research Chem* 11(2) March – April 2018, 307-311
- (7) Satish Bhat and Vidya R., (2018), *Partial Least Squares and Other Biased Regression Methods: A comparative Study*, *Thailand Statistician*, January 2018; 16(1) 38-55.
- (8) H. P. Chanchala, Raghavendra Shanbhog, M. D. Ravi, Vidya Raju, (2016), *Pediatrician's perspectives on dental trauma management: A cross-sectional survey*, *Journal of Indian Association of Public Health Dentistry*, 419-423

- (9) Mohammed Al-Ghorbani , Vidya, R. , Abdulrahman Algabri , Adel Almarashi , Shaukath Ara Khanum, (2016), *Analysis of Biological Efficacy Data of Piperazine Analogues*, International Journal for Research in Emerging Science and Technology, volume-3, Issue-12
- (10) C Raju and R Vidya, (2017), *Chain Sampling Plan (ChSP-1) for desired acceptable quality level(AQL) and limiting quality level(LQL)*, AIP Conference Proceedings 1905, 050036 (International)
- (11) C Raju and R Vidya,(2016) , *Chain Sampling Plan (ChSP-1) with Minimum Variance Outgoing Quality & Total Inspection*, AIP Conference Proceedings 1905, 050036 (International)
- (12) C Raju and R Vidya, (2016), *Minimum Variance and Variance of outgoing Quality limit MDS-1(C1, C2) Plans*, AIP Publishing 1739, 020065-1 to 8
- (13) Bhat Satish Shankar, Vidya,R., (2016) *A Comparative Study on the Performance of New Ridge Estimators*, Pakistan Journal of Statistics and Operations Research Page. 317-325., (International)
- (14) Bhat Satish Shankar, Vidya,R., (2017) *The Class of Generalized Ridge Estimator*, Communications in Statistics - Simulation and Computation (International) Vol 0, No.0, 1-8
- (15) Bhat Satish Shankar, Vidya,R., Parameshwar V. Pandit, (2014), *Maximum likelihood Estimation of Parameters in a Mixture Model*, Communications in Statistics- Simulation and Computation (International) pp-141-148.
- (16) Dr.R.Vidya, Hossein Niavand, Farzaneh Haghghat nia(2014), *What is Quality Costs calculation Using the ABC Method of the order Application in TQM*, International Journal of Scientific and Engineering Research (IJSER), 2014
- (17) Vidya,R., Raju c., (2013), *Designing Chain Sampling Plan (Ch-SP-1) under lot quality Protection*, Computational Mathematics, Computational Geometry and Statistics (International) pp-103-106.
- (18) Vidya R., (2008) *Minimum Variance and VOQL Chain Sampling Plans - ChSP-4 (c₁, c₂), Communications in Statistics, Simulation and Computation, International, U.S.A Vol. 37. No.7, pp-1466-1478.*
- (19) Vidya R, Hebbar, H.V., Raju.C (1999), *On Dodge-Romig Single Sampling Inspection Tables Under Lot Quality Protection*, Economic Quality Control, International, Germany Vol. 14. No.3-4, pp-163-171.
- (20) Arun Rao. K., Nagnur, B.N., Vidya R (1999), *On Second Order Efficiency of Estimators Derived by Generalized Chi-Square Distance Functions*, Biometrical Journal , International, U.K, Vol. 41. No.5, pp-615-626.
- (21) Vidya R., Hebbar, H.V., (1998), *On Designing Variables Single Sampling Plans Indexed by AQL and LQL*, Economic Quality Control, International, Germany Vol. 13. No.4,205-220.
- (22) Arun Rao. K., Vidya R (1992), *On the Performance of a test for Coefficient of Variation*, Calcutta Statistical Bulletin National, Calcutta, Vol. 42. No.16, pp-87-95.

PUBLICATIONS IN CONFERENCE PROCEEDINGS:

1. **Bhat Satish Shankar, Vidya,R.**(2017), *A New Ridge Estimator and its performance*, Proceedings of National Conference on Operations Management , Analytics and Statistical Methods, **SDM IMD, Mysore**
2. C Raju and R Vidya, (2016), *Minimum Variance and Variance of outgoing Quality limit MDS-1(C1, C2) Plans*, AIP Publishing 1739, 020065-1 to 8 (**International**)
3. **Bhat Satish Shankar, Vidya, R.** (2015), *Improvement on Ridge regression Estimator*, Proceedings of National Seminar on Statistical Methods and Data Analysis Abhiruchi Prakashana, Mysore. with **ISBN No.** 81-7877-093-8. Page 65-71.
4. **Amruhta A.K. Vidya,R.**(2015), *An Analysis of DMFT by their Brushing Methods using Zero Inflated Models*, Proceedings of National Seminar on Statistical Methods and Data Analysis, **ISBN No.** 81-7877-093-8. Page 47-54. Abhiruchi Prakashana, Mysore March'2015.
5. **Bhat Satish Shankar, Vidya, R.,** (2014), *On an Almost Unbiased Ridge Estimator in a Bilinear Model*, Proceedings of International Conference on Recent Developments on Statistical Theory and Practice (ICRDSTAP-2013) with **ISBN No.** 978-93-83459-13-1. Bonfring Intellectual Integrity Page No.141-148 April' 2014(International).
6. **Vidya, R., Ashadevi J.S.** (2013), *Students Assessment in Improving Quality Programme in Higher Education*, Conference proceeding with ISBN No.978-93-81430-52-1 (National) pp-252-256.

Research Guidance:

1. **Bhat Satish Shankar** on the topic "**Contribution to the Study of Partial Least Squares Regression (PLSR)**" awarded the degree on 11-12-2017

BOOKS /MANUALS EDITED

Edited the Seminar Proceeding in the book form **Statistical Methods and Data Analysis**,
Published By Abhiruchi Prakashana, Mysore, ISBN No. 81-7877-093-8. (2015).

PAPERS PRESENTED/ ATTENDED CONFERENCES/SYMPOSIUM/WORKSHOPS:

- *Invited teacher-participant for 29th Mid-year Meeting of Indian Academy of Sciences of Indian Institute of Science, held at Infosys Training Centre, Mysore during 28-30 June 2018*
- 1. *Participated in the Three-day Workshop-cum-Seminar commemorating 75 years of Teaching M.Sc. Statistics Course held during February 08-10, 2018, at the DOS in Statistics, University of Mysore, Mysore.*
- 2. *Participated in one day State Level Symposium on "Recent Development in Science, Engineering and Technology" held on 10th October 2017 at ATME College of Engineering,*

Mysore.

3. Participated in the one-day workshop on **“Uploading AISHE Data to ALL India Survey on Higher Education Portal”** held at Centenary Hall, Maharaja College, Mysore, on 15th February 2017.
4. Attended the meeting of **RUSA of State University Constituent Colleges** on 17-06-2016 at RUSA Zonal Office, Bangalore.
5. Participated in the 103rd Indian Science Congress, held at University of Mysore, Mysore from 3rd to 7th January 2016.
6. Participated in the UGC Sponsored National Level Workshop/Seminar on **“Vachana Sahitya: Samakaleena Chinthanegalu”** Organized by Department of Kannada, Yuvaraja’s College, Mysore, University of Mysore, during 22-23 September 2015
7. Organising committee member for National Level Workshop/Seminar on **“Kuvempu Sahitya: Samakaleena Chinthanegalu”** Organised by Department of Kannada, Yuvaraja’s College, Mysore, University of Mysore, on 29th December, 2014.
8. Convener and Organising Secretary for the 2-day UGC sponsored National Seminar on **“Statistical Methods and Data Analysis”** Organised by Department of Statistics, Yuvaraja’s College, Mysore on 26-27 September 2014.
9. National Seminar on **“Sahityetar Kshetra Mein Hindi ka Yogdan”** Organised by Department of Hindi, Maharaja’s College, Mysore in Collaboration with National Testing Services -1, Central Institute of Indian Languages, Mysore, on 17th -18th September 2014.
10. National Seminar on **“Educational Vision and Mission of Swami Vivekananda”** Organised by Yuvaraja’s College, Mysore, University of Mysore, on 18th and 19th August, 2014.
11. **“Census Data Dissemination Workshop”** sponsored by Directorate of Census Operations, Karnantaka, organized by University of Mysore and, 23rd January 2014.
12. National Workshop/Seminar on **“Probability and Statistics”** Organised by DOS in Statistics University of Mysore, Mysore, Nov 5th and 6th, 2013.
13. NAAC sponsored National conference on **“continuous enhancement of quality in higher educational institutions”** organized by Park’s College, Tirupur on 30th Sep and 1st Oct 2013 and presented paper on **“Students Assessment in Improving Quality Programme in Higher Education”**.
14. UGC sponsored **“National seminar on role of autonomy and quality assurance in higher education: issues, achievements and challenges”** organized by Gobi arts and Science College, Gobichettipalayam, Erode district, Tamilnadu. On 1st and 2nd Feb 2013 and presented paper on **“Why do colleges seek autonomy?”**
15. Workshop on **‘ Re-visiting Affiliation System and UGC Schemes for Development of Higher Education and launching of CDC Handbook-2012** organised by College Development Council, University of Mysore, 3rd November 2012.
16. Attended one day **INFOSYS SPARK programme**, organized by INFOSYS Mysore campus on 29-09-2012.
17. One day workshop on **“Autonomous Colleges-devising Innovative Strategies**, Organised by JSS Law College, Mysore 28th July 2012.
18. Workshop on **“Filling up DCF-II for All India Survey on Higher Education”**, Organised by Office of the Director, Organised by College Development Council, University of Mysore, Mysore on 24th July 2012.

19. One day workshop on “ *Creating Awareness about Official Statistics in India*” sponsored by Ministry of Statistics and Programme Implementation & National Academy of Statistical Administration, Government of India ,organized by University of Mysore, Mysore on 17th March 2012.
20. Three Day workshop-cum-Seminar on *Probability and Statistics*, Organised by Department of Studies in Statistics, University of Mysore, 5th March to 7th March 2012.
21. Scientific Resource Person for *State Level Workshop on Construction of Tool in Nursing Research*” Organised by College of Nursing, Gopala Gowda Shanthaveri Memorial Hospital Trust, Mysore, 17th -18th February 2012.
22. UGC Sponsored National Conference on “*Applications of Mathematics and Statistics*” organized by Department of Mathematics and Statistics, Yuvaraja’s College, Mysore, University of Mysore, on 25th-26th March , 2011.
23. One day workshop on *Choice Based credit system*, organized by Yuvaraja’s college, Mysore, 14th March 2011
24. Invited Guest to deliver *Lecture and demonstration On SPSS package*, Computer Centre, University of Mysore, 21st March, 2008
25. UGC sponsored State level Seminar on ‘*Popularizing Basic Science Courses- A modern approach*’, Govt. Science College, Hassan 31st August and 1st September, 2007.
26. One day symposium on ‘*Biology Today*” organized by Indian Institute of Science, Bangalore 14-15 July 2006.
27. *17th Mid-year Meeting of Indian Academy of Sciences* Indian Institute of Science, Bangalore 14-15 July 2006 Invited teacher-participant
28. *71st Annual Meeting of Indian Academy of Sciences*, Organised by Bharathidasan University, Tiruchinapalli, Invited teacher-participant
29. *Latex workshop* Organised by Dept. of Collegiate education Govt. of Karnataka, 01-03 October, 2005
30. Invited Guest faculty to deliver lecture, “*Workshop on SPSS package*” Organised by SDM Institute for Management Development, Mysore , 26th and 27th of March 2005
31. National Seminar on *Recent Advances in Statistical Methodologies and Applications*, Organised by Dept. of Statistics, Bharathiar University, Coimbatore, 18th and 19th March 2004. (**Minimum Variance and VOQL Chain Sampling Plan (ChSP-1)**)
32. State Level Seminar on *Frontiers of Science and Technology*, Organised by Yuvaraja’s College, Mysore, 5th January 2004
33. *Camo Course in Experimental Design – 3-Day Intensive Training Course CAMO Process AS, Oslo, Norway* 10 – 12 September, 2003.
34. U.G.C. Sponsored National Level Workshop on *Limit Theorems in Probability and Statistics*, organized by DOS in Statistics, Univ. of Mysore, 04-07 September , 2000\
35. U.G.C. Sponsored Three-Day Workshop on *Some Applications of Statistics in Economics and Finance*, Organised by DOS in Statistics, Univ. of Mysore 28th February to March 01, 2000.
36. State Level Symposium on *STATISTICS 2000* ** Organised by Department of Statistics, M.G.M. College, Udupi 25-26 June 1999

37. National Seminar on *Stochastic Systems*, organized by DOS in Statistics, Mangalore University, 05-07, February 1998 (**Two Stage Chain Sampling Plans Indexed by AQL and LQL Based on Kullback Leibler Information**).
38. U.G.C. Sponsored Three-day Seminar on *Applications of Statistics*, Organised by DOS in Statistics, Univ. of Mysore, 10-12 February 1997.
39. U.G.C. Sponsored National Level Workshop on *Order statistics, Extreme values and their Applications*, Organised by DOS in Statistics, Univ. of Mysore, 08-12 July, 1996.

BOOKS /MANUALS EDITED

Edited the Seminar Proceeding in the book form **Statistical Methods and Data Analysis**, Published by Abhiruchi Prakashana, Mysore, ISBN No. 81-7877-093-8. (2015).

REVIEW WORK

Viewer for international journals:

- Journal of Statistical Computation and Simulation.
- Modeling and Simulation in Engineering.
- Thailand Statistician
- Communications in Statistics – Case Studies and Data Analysis
- Concurrency and Computation: Practice and Experience

ORGANIZED SEMINAR /CONFERENCE:

National Level:

1. Convener and organising secretary for *National Seminar on RESEARCH AND PUBLISHING*, held on 23rd March 2019, Yuvaraja's College, Mysore
2. Convener and organising secretary for *NATIONAL SEMINAR ON STATISTICAL METHODS AND DATA ANALYSIS*, September 26th & 27th, 2014.

State Level

3. Convener and organising secretary for *One day workshop on "Questionnaire and designing"*, held on 25th January 2020 organized by department of Statistics, Yuvaraja's College, Mysore
4. Convener and organising secretary for *One day Workshop on "Academic and Administrative Auditing"*, held on 21st January 2020, Yuvaraja's College, Mysore
5. Convener and organising secretary for *One day workshop on "National Education Policy 2020-Teachers Role" held on 19-11-2021*, Yuvaraja's College, Mysore

Others:

6. Registration Committee member for National Fest "*Inter University National Youth Festival (Yuva Shatha Sambrama-2016)*" held from 15-02-2016 to 19-02-2016, organized by University of Mysore, Mysore.

7. Reception sub - committee member for 103rd Indian Science Congress, held from 3rd to 7th January 2016, held at University of Mysore, Mysore.
8. Organising committee member for UGC Sponsored 2 Days *National Level Seminar on "Vachanas in 21st century: Thoughts and Perceptions"* Organised by Department of Kannada, Yuvaraja's College, Mysore, University of Mysore, 22nd and 23rd September, 2015
9. Organising committee member for *National Level Workshop/Seminar on "Kuvempu Sahitya: Samakaleena Chinthanegalu"* Organised by Department of Kannada, Yuvaraja's College, Mysore, University of Mysore, 29th January, 2015
10. Organising committee member for National seminar on 150th Birth Anniversary Celebrations of Swami Vivekananda, *Educational Vision and Mission of Swami Vivekananda* , August 18th and 19th 2014.
11. *Scientific Resource Person for: State Level Workshop on Construction of Tool in Nursing Research"* Organised by College of Nursing, Gopala Gowda Shanthaveri Memorial Hospital Trust, Mysore , 17th - 18th February 2012.
12. Organising committee member for National seminar on *biodiversity for food security*, 24th - 25th June 2005.
13. Organising committee member for State level seminar on *Frontiers of Sciences and Technology*, 5th Jan 2004.

VISITS ABROAD:

Visited Norway, Oslo during 10 – 12 September, 2003, to attend 3-Day Intensive Training Course in *Camo Course in Experimental Design at CAMO Process AS*.

PARTICIPATION IN EXTENSION ACTIVITIES:

- ❖ Remedial coaching (Done through SC/ST Special Cell)
- ❖ Rural Development Schemes-Creating awareness and popularizing science among rural high school students. Answering the queries of high school students, which are popularized in Andolana newspaper.
- ❖ Delivered several Lectures in RIE on the topic "Creating and Handling real Life Data"

OTHER ACHIEVEMENTS:

- ❖ Delivered 16 E-content Modules for **NMEICT-MHRD** project—Sakshath, National Mission on Education through ICT, 2014-15
- ❖ Delivered 05 E-content Modules for **NMEICT-MHRD** project—Sakshath, National Mission on Education through ICT, 2016-17
- ❖ Course coordinator-**MOOCs** course on Descriptive statistics during Jan -Jun 2021, Jan - Jun 2022
- ❖ College Nodal officer under the **AISHE** launched by the Central Government, MHRD from 2012-13 to till date.
- ❖ Coordinator-**IQAC** (2018 April onwards)

- ❖ Developed/ submitted the report on **GENDER AUDITING** of the college for the year 2015-2020
- ❖ Developed the online **students feedback** form and generated the **feedback analysis** from 2015-16 to date
- ❖ Mentors/Resource persons for Summer/Winter Camps and other **INSPIRE** initiatives Under Inspire Programme (Department of Science & Technology (DST))
- ❖ Research project entitled "**A Study on Road Accidents in Mangaluru District**" under inspire scholarship in the subject statistics submitted by Anusha, INSPIRE Scholar St. Agnes College, Mangaluru was submitted to DST under my supervision(2015)
- ❖ Nodal Officer/User of **UGC e-Schemes** Portal of the college from 2013-14 till date.
- ❖ Co-ordinator to manage UGC **Grants** of the College from 2013-14 till date.

OTHER RESPONSIBILITIES:

- ❖ Co-ordinator to maintain the college **Website** from 2008-2015.
- ❖ Co-ordinator -**Women Empowerment** Committee from 2015-16 to 2020-21
- ❖ Subject Expert for selection of Lectures in Statistics in **Sarada Vilas Educational Institutions**, Mysore (2010-11).
- ❖ Governing Council Member of **Mallamma Marimallappa Science and Business Management College**, Mysore .
- ❖ Examiner to evaluate KAS Main (General studies paper -1)-2011 examinations.
- ❖ Member-Reception Committee-103 Indian Science congress(2015)
- ❖ Member-College with Potential for excellence-April 2010 onwards)
- ❖ Member- to maintain the college **Website** from 2016-till date
- ❖ Member-Stock verification(2012-13)
- ❖ Member - Inter Collegiate Literary and Cultural Competitions from 2009-10 to 2016-17.
- ❖ Member – **IQAC** of the college (2012 onwards).
- ❖ Member- **Alumni** Association of the College(2012-13 till date)
- ❖ Member-Science Exhibition Committee-2012-13
- ❖ Member -**Sports Committee** from 2010-11 to 2015-16.
- ❖ Member- **Placement** Cell
- ❖ Member Admission Committee-2002-2014
- ❖ Prepared **SSR report submitted to NAAC--2nd Cycle**
- ❖ Member-scrutiny of applications of Contact teachers(2016-17)
- ❖ Attended meeting of Institutional Development Plan (RUSA) on 17-07-2016
- ❖ Member of committee for Evaluation of Appa Research Centre Gulbarga (08-09-2011)
- ❖ Head of the department and AC Member , Department of Statistics(2007-012, 2014 to till date)
- ❖ Member of Graduation day celebrations (2013 onwards)
- ❖ Invigilator and committee member , PG-CET 2017-18 onwards
- ❖ Additional Teaching Assignment-PG/M.Phil., Dept. of Criminology and Forensic Sciences, Maharaja's College, Mysore (2011-12 to 2013-14)
- ❖ Assembly 2018-Prisiding Officer

- ❖ Chief Guest for [National Statistics Day Celebrations 2018](#) at Sri Jayachamarajendra PU College
- ❖ Served as BOS Member of DOS in Statistics, UOM, DOS in Geology, UOM, Bangalore University, St Aloysius College, St Agnes College
- ❖ Served as BOE Member of M.Sc. in Molecular Biology, M.Sc. in Food Science and Nutrition, YCM, JSS University, Bangalore University, Mysore University.