

CURRICULUM VITAE 2022-23



Name : **Ashok Vithoba Dorugade**

Designation : Assistant Professor

Organization : Department of Statistics
Yashwantrao Chavan Mahavidhyalaya, Halkarni
Tal- Chandgad, Dist-Kolhapur, State- Maharashtra, INDIA - 416552

Date of Birth : 20th August 1979.

Citizenship : Indian

Sex : Male

Marital Status : Married and have two Sons.

Address for Communication

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Educational Background :

♦ **Doctor of Philosophy (Statistics) 2010**

Shivaji University, Kolhapur

Thesis entitled "On variable Selection in Linear Regression in the presence of Multicollinearity"

Guide: Dr. D. N. Kashid

Department of Statistics, Shivaji University, Kolhapur

♦ **Master of Science (Statistics) 2000-2002**

Shivaji University, Kolhapur

Courses -Probability Theory, Statistical Inference, Multivariate Analysis, Sampling Theory and Computer programming, Linear Programming and Industrial Statistics, Linear Models, Stochastic Processes, Operations Research_and Data processing, Project Work on Sequential Analysis)

Courses Taught

For B.Sc.-III Statistics: Programming in C and Operations Research, Designs of experiment and Sampling Methods

For B.Sc.-II Statistics: Continuous Probability Distributions, Statistical Methods and Bivariate Discrete Distributions

For B.Sc.-I Statistics: Descriptive Statistics-I & II, Elementary Probability Theory, Discrete Probability Distributions.

For B.Com.-II Statistics: Business Statistics

Knowledge of Software : SYSTAT, MINITAB, MATLAB, R, SPSS.

Programming Language : BASIC and C.

Computer skills: MS-Office (Word, Excel, Power Point).

Positions held:

Assistant Professor : December 2010 onwards. Department of Statistics, Yashwantrao Chavan Mahavidhyalaya, Halkarni, Tal-Chandgad, Dist-Kolhapur.

- **Lecturer** : **(On Full time CHB)** June 2003- April 2004, June 2004- April 2005, June 2005-April 2006, June 2006- April 2007.
(On CHB) June 2007- April 2008, June 2008- April 2009, June 2009-April 2010, June 2010- November 2010. Department of Statistics, Yashwantrao Chavan Mahavidhyalaya, Halkarni, Tal-Chandgad, Dist-Kolhapur.
- **Lecturer** : **(On CHB)** June 2004- April 2005, June 2005- April 2006, June 2007- April 2008, June 2008- April 2009, June 2009-April 2010. Department of Statistics, Arts and Commerce College, Nesari, Tal-Gadhinglaj, Dist-Kolhapur.
- **Lecturer** : **(On CHB)** June 2002- April 2003, June 2003- April 2004, June 2004- April 2005. Department of Statistics, Kala Mahavidhyalaya, Kowad, Tal-Chandgad, Dist-Kolhapur.
- **Lecturer** : **(On CHB)** June 2002- April 2003, June 2003- April 2004, June 2004- April 2005.
(On Full time CHB) June 2007- April 2008, June 2008- April 2009, June 2009-April 2010, June 2010- November 2010. Department of Statistics, Ajara Mahavidhyalaya, Ajara, Tal-Ajara, Dist-Kolhapur.

University Authorities:

1. Member, Board of Studies in Statistics : Shivaji University, Kolhapur (Since 2021-22)

Research Schemes/Projects:

1. **Principal Investigator** (UGC Research Award Scheme 2014-16): Post Variable Selection Analysis in Regression (2015-2017) is completed.
2. **Co-investigator** (UGC- Minor): "Study and Fabrication of Microstipline Components" project progressed by Dr. R.A.Ghorpade, Department of Physics, Yashwantrao Chavan Mahavidhyalaya, Halkarni (2012-2015) is completed.

- 3. Principal Investigator** (UGC-Minor): A Comparative study on Some Variable Selection Methods for Handling Multicollinearity Problems (2010-12) is completed.

Current Research Interests:

- Regression Analysis
- Applied and computational statistics
- Biostatistics

Research Publications :

[Google Scholar](#)

[Scopus](#)

1. Dorugade, A.V. (2019), Efficient Two Parameter Estimator in Linear regression Model, *The Journal of Statistics in Transition - new series*. Vol. 20(2), 173-185.
2. Dorugade, A.V. (2016), Adjusted ridge estimator and comparison with Kibria's method in linear regression, *Journal of Association of Arab Universities for Basic and Applied Sciences*. Vol. 21, 96-102.
3. Dorugade, A.V. (2016), Improved Ridge Estimator in Linear Regression with Multicollinearity, Heteroscedastic Errors and Outliers, *The Journal of Modern Applied Statistical Methods*. Vol. November 15(2), 362-381.
4. Dorugade, A.V. (2016), Alternative to Ridge Estimator without Ridge Parameter, *The Journal of Basic and Applied Research international*. Vol. 13(3), 170-184.
5. Dorugade, A.V. (2015), Correlation based ridge parameters in Ridge Regression with Heteroscedastic Errors and Outliers, *Journal of Statistical Theory and Applications*. Vol. 14 (4), 413-424.
6. Dorugade, A.V. (2014), New ridge parameters in ridge regression, *Journal of Association of Arab Universities for Basic and Applied Sciences*. Vol. 15, 94-99.
7. Dorugade, A.V. (2014), On Comparison of Some Ridge Parameters in Ridge Regression, *Sri Lankan Journal of Applied Statistics*. Vol. 15(1), 31-45.
8. Dorugade, A.V. (2014), Modified Two Parameter Estimator in Linear regression, *The Journal of Statistics in Transition - new series*. Vol. 15(1), 23-36.
9. Dorugade, A.V. and Kashid, D.N. (2011), Parameter estimation method in Ridge Regression, *Interstat*. May 2011.
10. Dorugade, A.V. and Kashid, D.N. (2010), Variable Selection in Linear Regression based on Ridge Estimator, *Journal of Statistical Computation and Simulation*. Vol. 80, No. 11, November 2010, 1211-1224.
11. Dorugade, A.V. and Kashid, D.N. (2010), Alternative Method for Choosing Ridge Parameter for Regression, *International Journal of Applied Mathematical Sciences* Vol. 4, No. 9, 447-456.
12. Dorugade, A.V. and Kashid, D.N. (2010), Subset Selection in Linear Regression Using Generalized Ridge Estimator, *Journal of Statistical Theory and Practices*. Vol. 4, No. 3, 375-389.

2. Papers Accepted: --

3. Papers Communicated:

Books/Articles written:

1. Contributed to **Eight** text books of Statistics, Phadke Prakashan Kolhapur (2019, 2020, 2022, 2023).

Collaborative Research Work :

Participation & Presentation in National/International Conferences/Workshops:

1. International Symposium on Nonparametric Statistical Methods (ISNSM -2022) dated on 12 Nov. 2022, organized by Department of Statistics, Shivaji University, Kolhapur.
2. A National Seminar on advances in Statistical Modeling and Inference, dated on 14 Feb.-15 Feb.2020, Arranged by Department of Statistics, Shivaji University, Kolhapur.
3. A National Seminar on Emerging Trends and Innovations in Science and Technology, dated on 01 Feb. 2020, Arranged by IQAC, Department of Physics and Chemistry, Y C Mahavidyalaya, Halkarni.
4. A National Seminar on Revised Accreditation Framework of NAAC, dated on 21 Feb. 2019, Arranged by IQAC, Shivaji University, Kolhapur.
5. A National Seminar on Statistical Modeling and Applications, dated on 23 Feb.-24 Feb.2018, Arranged by Department of Statistics, Shivaji University, Kolhapur.
6. Paper entitled **"Modified Alternative to Ridge Estimators"** is presented in, A International Conference on Theory and Applications of Statistics and Information Sciences, in Conjunction with 37th Annual Convention of ISPS, dated on 05 Jan. - 07 Jan. 2018, Arranged by Department of Statistics, Bharathiar University, Coimbatore.
7. A National workshop on Bayesian Analysis and Big Data Analytics, dated on 03 Jan. -04 Jan. 2018, Arranged by Department of Statistics, Bharathiar University, Coimbatore.
8. Paper entitled **"New Ridge Parameters with Extensive Comparative Study"** is presented in, A National Conference on Applied Statistics and Informatics dated on 10-11 March, 2017 Arranged by Department of Statistics, Shivaji University, Kolhapur.
9. Paper entitled **"Alternative to ridge estimator without ridge parameter"** is presented in, A National Seminar on SQC, Reliability, Design of Experiments and Operations Research dated on 23 Feb. - 24 Feb. 2017, Arranged by Department of Statistics, Acharya Nagarjuna University, Guntur (A.P.).
10. A National workshop on Statistical Computation with R, dated on 22 Feb. 2017, Arranged by Department of Statistics, Acharya Nagarjuna University, Guntur (A.P.).
11. Paper entitled **"Correlation based Ridge Parameters in Ridge Regression with Heteroscedastic errors and Outliers "** is presented in, A International Symposium on Statistics and Optimization, in Conjunction with 36th Annual

Convention of ISPS, dated on 17 Dec. - 19 Dec. 2016, Arranged by Department of Statistics & Operations Research, Aligarh Muslim University, Aligarh (India).

12. A National Conference on "Applied Statistics", dated on 11-12 Mar. 2016, Arranged by Department of Statistics, Shivaji University, Kolhapur.
13. A workshop on "Computational Statistics", Arranged by the Interdisciplinary Statistical Research Unit (ISRU), during February 22-26, 2016, at the Indian Statistical Institute, Kolkata.
14. Paper entitled "**Modified Two-Parameter Estimator in Linear Regression**" is presented in, A International Conference on Celebrating Statistical Innovation and Impact in a World of Big and Small Data, in Conjunction with IISA, dated on 20-24 Dec. 2015, Arranged by Department of Statistics, Savitribai Phule Pune University - INDIA.
15. Paper entitled "**Adjusted Ridge Estimator and Comparison with Kibria's Method in Linear Regression**" is presented in, A International Conference on Mathematical Sciences-2015, dated on 15-16 Sept. 2015, Arranged by Department of Statistics, SGM, College Karad, Maharashtra - INDIA.
16. Paper entitled "**Improved Ridge Estimator in Linear Regression with Multicollinearity, Heteroscedastic Errors and Outliers**" is presented in, A National Seminar on Recent Developments In Applied Statistics [NSRDAS - 2015], dated on 25-26 Sept. 2015, Arranged by Department of Statistics, Balwant College, Vita, Maharashtra - INDIA.
17. A National workshop on "A National Symposium on Business Analytics and Data Mining" dated on 21-22 Mar. 2014, Arranged by Department of Statistics, Shivaji University, Kolhapur.
18. Paper entitled "**On Comparison of Some Ridge Parameters in Ridge Regression**" is presented in, A International Conference on Statistics and Information Technology for a Growing Nation, in Conjunction with 34th Annual Convention of ISPS, dated on 30 Nov. - 02 Dec. 2014, Arranged by Department of Statistics, Sri Venkateswara University, Tirupati.
19. Paper entitled "**Improved Ridge Estimator in Linear Regression**" is presented in, A National Conference on New Horizons of Statistics, dated on 19-21 Oct. 2013, Arranged by Department of Statistics, Solapur University, Solapur.
20. Paper entitled "**Efficient Two-Parameter Estimator in Linear Regression**" is presented in, A International Conference on Recent Advances in Statistics and Their Applications, in Conjunction with 33rd Annual Convention of ISPS, dated on 26-28 Dec. 2013, Arranged by Department of Statistics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
21. A National workshop on "Techniques for Discrete Data Analysis", dated on 21-22 Mar. 2013, Arranged by Department of Statistics, Shivaji University, Kolhapur.

22. A National workshop on Exploratory Statistical Data Analysis Using Statistical Software's, dated on 22-23 Feb. 2012, Arranged by Department of Statistics, BAMU, Aurangabad.
23. Paper entitled "**New Variable Selection Criterion in Presence of Multicollinearity**" is presented in, A National conference on Interface Between Statistics and Other Sciences, dated on 24-25 Feb. 2012, Arranged by Department of Statistics, BAMU, Aurangabad.
24. Paper entitled "**New Ridge Parameters in Ridge Regression**" is presented in, A National Seminar on Recent Developments in Statistics, dated on 12-13 Oct. 2012, Arranged by Department of Statistics, Shivaji University, Kolhapur.
25. Paper entitled "**Post variable selection analysis in regression**" is presented in, A National conference on Advances in Statistical Theory and Application, dated on 16-18 Nov. 2011, Arranged by Department of Statistics, Bangalore University, Bangalore.
26. A National Seminar on Design of experiments and its Applications, dated on 17-20 Feb. 2010, Arranged by Department of Statistics, Shivaji University, Kolhapur.
27. Paper entitled "**Variable Selection in Linear Regression based on Ridge Estimator**" is presented in, A National Seminar on Statistical Inference and Applications, dated on 22-23 May. 2009, Arranged by Department of Statistics, Shivaji University, Kolhapur.
28. A National conference on Statistical Modeling and Inference, dated on 12-14 Feb. 2007, Organized by Department of Statistics, Shivaji University, Kolhapur.
29. A National workshop on Monte Carlo Methods and Applications, dated on 1-4 Aug. 2006, Arranged by Department of Statistics, Shivaji University, Kolhapur.

Participation & Presentation in other Conferences/Workshops:

1. Delivered lecture as a resource person on 'Use of Ms-Excel in Research' in one day workshop under lead college scheme on 10 Mar, 2023, arranged by Ajara, Mahavidyalaya, Ajara, Dist -Kolhapur.
2. Delivered lecture as a resource person on the topic "Testing of Hypothesis", in a one day workshop on revised syllabus of statistics at B.Sc.-II, dated on 30 Nov. 2019, arranged by DKASC, Ichalkarnaji.
3. Participated in one day Training workshop on "All India Survey on Higher Education programme 2018-19 (AISHE/MIS)" dated on 21 Feb. 2019, arranged by Shivaji University, Kolhapur.
4. Participated in one day Training workshop on "All India Survey on Higher Education programme 2018-19 (AISHE/MIS)" dated on 05 Jan. 2019, jointly arranged by Shivaji University, Kolhapur and New College, Kolhapur.
5. Delivered Lecture as a Resource Person on the topic "Practical demo of cashless transactions using internet", in a one day workshop on Vittiya Saksharta Abhiyan (VISAKA) and Cashless Maharashtra Awareness and Training Workshop, arranged by

jointly NSS, Shivaji University Kolhapur and Yashwantrao Chavan Mahavidyalaya, Halkarni.

6. Participated in one day Training workshop on "All India Survey on Higher Education programme 2015-16 (AISHE/MIS)" dated on 22 Sept. 2015, jointly arranged by Shivaji University, Kolhapur and D. R. Mane Mahavidyalaya, Kagal.
7. Lecturer on "Fitting of discrete and continuous distributions" as a Resource Person, in one day workshop on 'Use of Ms-Excel in Statistics' under lead college scheme on 24 Jan, 2015, arranged by Ajara, Mahavidyalaya, Ajara, Dist -Kolhapur.
8. Lecturer on "Concepts of Test of Significance" as Invited Lecturer, on occasion of national Statistics day, dated on 30 June, 2014, arranged by R.B.Madkholkar, Mahavidyalaya, Chandgad, Dist -Kolhapur.
9. Participated in Two day workshop on "Formulations of Research Project Proposals in Statistics" dated on 19-20 March. 2012, arranged by Department of Statistics, Shivaji University, Kolhapur.
10. Participated in workshop on "Faculty Development Program" dated on 18 Feb. 2012, arranged by Jyoti College, of IT and Management, Kolhapur.
11. Lecturer on "Use of ICT in research" as a Resource Person, in one day workshop under lead college scheme, dated on 24 sept., 2011, arranged by R.B.Madkholkar, Mahavidyalaya, Chandgad, Dist-Kolhapur.
12. A State Level seminar on Recent Developments in Statistical Inference, dated on 10 sept.2007, arranged by Department of Statistics, Karmveer Bhaurao Patil Mahavidyalaya, Pandharpur, Solapur.

Other Professional Activities and Public Service

1. Professional Services

1.1 Papers Review: Work as reviewer for more than 15 international journals:

2. Particulars about research work directed B.Sc./M.Sc./ M. Phil./Ph.D.

2.1 Lecturer as a Resource Person:

1. Delivered lecture as a resource person in the Two-Week Capacity Building Program on 'Research Methodology' sponsored by Western region of ICSSR, organized by the Department of Statistics, Anandibai Raorane Arts, Commerce and Science College, Vaibhavwadi on 29 Nov., 2022.
2. Delivered a lecturer as a Resource Person on the topic "Sparse Modeling", for M.Phil / Pre - Ph.D. course work in Statistics dated on 08 Aug. 2022, arranged by Department of Statistics, Shivaji University, Kolhapur.
3. Delivered lecture as a resource person in the Short Term Programme organized by the Department of Commerce and Management, Shivaji University, Kolhapur on 'Research Design and Data Analysis' on 10 February, 2022.
4. Delivered two lectures as a Resource Person on the topic "Regression and Collinearity", for M.Phil / Pre - Ph.D. course work in Statistics dated on 14 Jun. 2019, arranged by Department of Statistics, Shivaji University, Kolhapur.

5. Delivered lecturer as a Resource Person on the topic "Macros in Minitab", for M.Phil / Pre - Ph.D. course work in Statistics dated on 9 Mar. 2019, arranged by Department of Statistics, Shivaji University, Kolhapur.
6. Delivered lecturer as a Resource Person on the topics "Regression and Collinearity", for M.Phil / Pre - Ph.D. course work in Statistics dated on 24 Apr. 2016, arranged by Department of Statistics, Shivaji University, Kolhapur.

2.2 Research Guidance

Guided to number of **B.Sc.** Statistics students for projects and **M. Phil. / Ph.D. researchers.** This includes - Defining a Problem, Plan for Data Collection, Analysis of Data, Report writing along with limitations of the project.

3. Training program:

1. Completed online **Professional Development Programme** on 'Implementation of NEP-2020 for University and College Teachers' held on 9th-14th Sept., 2022, Implemented by Indira Gandhi National Open University, under the scheme of PMMMNMTT.
2. Completed one week **FDP** on 'Data Analytics and Mathematical Software Tools' organized by TLC, Ramanujan College, Delhi during 25 February to 03 March, 2022.
3. Completed online **Faculty Development Programme** 'on Managing Online Classes and Co-Creating MOOCS 3.0' held on July 25th – Aug 10th, 2020, organized by TLC & Research Development and Services Cell Ramanujan College, University of Delhi, under the scheme of PMMMNMTT.
4. Completed '**Faculty Development Programme** on Research Methodology workshop on recent trends in BFSI Sector' held on Feb 29th – March 9th, 2020, organized by FDC, Sydenham, at Arts and Commerce College, Phondaghat, under the scheme of PMMMNMTT.
5. Completed MOOC's course entitled '**Biostatistics and Mathematical Biology**', on Swayam portal.
6. Completed '**5-Day workshop on Enhancing of Teaching and Learning Skills in Statistics**' held on March 12th – 16th, 2019, organized by TLC, Central University of Rajasthan (TLC@CURaj), under the scheme of PMMMNM on Teachers and Teaching.
7. Completed '**Special Winter School in Computational Mathematics**' during 06 Nov. - 26 Nov. 2017, conducted by HRDC, Savitribai Phule Pune University, Pune.
8. Completed '**Refresher Course in Mathematics**' during 14 Sept. - 04 Oct. 2016, conducted by HRDC, University of Hyderabad, Hyderabad.
9. Completed '**Orientation Programme**' during 15 Feb. - 14 Mar. 2013, conducted by ASC, University of Mysore, Mysore.

4. Training program conducted:

Conducted and Completed certified course for students entitled '**Domestic Data Entry Operator**' during 19 Feb. -19 Mar. 2014, under National Skill Certification and Monetary Reward Scheme, India.

Other Responsibilities:

1. College **Nodal Officer** for
 - i. **AISHE** (All India Survey on Higher Education) Conducted by MHRD, Dept. of Higher Education, New Delhi.
 - ii. **MIS** (Management Information System) Conducted by Directorate of Higher Education Maharashtra State, Pune.
 - iii. **NIRF** (National Institute Ranking Framework) Ministry of Education, Govt. of India.
 - iv. **UGC e-scheme** (University Grants Commission, e-scheme portal)
2. **Member:** for College committees
 - i. Internal Quality Assurance Cell (IQAC)

Scholarships/ Prizes/ Awards/ Ranks etc. to the credit and Memberships:

1. Life Member of:

- i. Indian Society for Probability and Statistics
- ii. Life Member, Shivaji University Teachers Association
- iii. Life Member, Shivaji University Statistics Teachers Association