CURRICULUM VITAE

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Kolhapur, 416 008, India

Educational Background:

- M. Stat (1984) Indian Statistical Institute Kolkata.
- UGC NET Qualified for JRF in 1985
- M. Phil. (1986) Shivaji University Kolhapur
- Ph. D (1999) Shivaji University Kolhapur
  Thesis Title: "Analysis and Inference related to multivariate life distributions"

Positions Held:

Lecturer:

- Sep 1984 to June 1985 New College, Kolhapur India.
- Oct 1987 to May 1988 Smt. K. W. College, Sangli, India.
- Aug 1988 to Jan 1991 Jaysingpur College, Jaysingpur, India.
- Feb 1991 to Jan 2000 Shivaji University, Kolhapur, India.

Reader in Statistics:

- Jan 2000 to Till Date Shivaji University, Kolhapur, India.

Courses Taught:

Under-Graduate : Distribution Theory, Statistical Inference, Probability, Design of Experiments, Operations Research, Sampling, Mathematical Analysis, Elementary Statistics for interdisciplinary Courses.

Post-Graduate: Probability Theory, Point Estimation, Operations Research, Reliability Theory, Survival Analysis, Design of experiments, Linear Algebra, Real Analysis, Econometrics, Discrete data analysis.

Currently teaching: Distribution Theory, Time Series Analysis, Regression Analysis, Linear Models.

M.Phil. and Ph.D. students guided:

M. Phil. :

1. On Multivariate Lack of Memory Property and Setting the Clock Back to Zero Property (Mr. B. B. Patkure)

2. On Fractional Factorial Designs (Ms S. H. Patil)

3. A Study of Designed Experiments with Non normal Response Variables (Ms. V .V. Patil)

4. Analysis of designed experiments with the directional response variable.(Miss. Kamble A. T.)

5. On Analysis of un-replicated factorial experiments (Ms. Patil S. S.) (Working)

Ph.D.

1. On Analysis of Designed Experiments with Poisson distributed Response Variables (Miss. V .V. Patil)

2. On Confidence Intervals for Expected Responses in 2^n Factorial Experiments for Exponentially and for Gamma Distributed Response Variables (Ms. Patil S. C.)

3. On Interval Estimation of the Mean of Gamma and Weibull Distributions (Mr. Powar S. K.)

4. On Analysis of Factorial Experiments With Zero Inflated Discrete Response .(Miss Dandage M. R) (Working)

5. Tests of Hypotheses in the Presence of Nuisance Parameters. (Mr. Patil S. B.) (Working)

6. On Modeling Directional Data, Inference and Apllications. (Mr. Kalange D. N.) (Working)

7. Some Inference Procedures for Weibull and Extreme Value Distributions, (Mr. Mirajkar R. M.) (Working)

Research Schemes/Projects:

1. Analysis of Designed experiments with non-normal response variable. **DST** (2006-2009.) (Major, PI)

2. Nonparametric Inference Related to Symmetric Distributions **DST** (2007-2010.) (Major, Co-PI)

3. A Study of bivariate Setting the Clock Back to Zero Property **UGC** (2006-2008) (Minor)

4. Testing for bivariate Lack of Memory against various alternatives **UGC** (2007-2009). (Minor)

Research Publications:

1. Prasad, M. S. and Kulkarni H. V. (1991) A Class of Absolutely Continuous Bivariate Lifetime Distributions *Proceed. of the sympo. on distribution theory, Kochi, Kerala, India.* 31-36.

2. Prasad, M. S. and Kulkarni H. V. (1994) A Note on Vector Failure Rate Function. *Jour of India. Soc. For Prob. and Stat*, **1,** 71-82.

3. Kulkarni H. V. and Rattihalli, R. N. (1996) Characterization of Bivariate mean residual-life function. *IEEE Transactions on Reliability,* **45,** 229-233.

4. Kulkarni, H. V. and Patkure, B. B. (2002), "Estimation of a bivariate mean residual life function", *Journal of American Statistical Association,* **97**, 907-917.

5. Kulkarni,H.V. (2004), "Characterization and modeling of multivariate of multivariate Lack of memory Property", *Metrika,* **64**, 167-180.

6. Kulkarni, H. V. and Patkure, B. B (2007), "A New Variant of the Bivariate Setting The Clock Back to Zero Property", *Commun.in Statistics –Theory Methods*, **36**, 2339 -2349.

7. Kulkarni, H. V. and Patkure, B. B. (2009), "Characterizations of the Setting the Clock Back to Zero Property", *Journal of Statistical Theory and Applications* **8**, 75-83.

8. Kulkarni, H. V. and Powar, S. K. (2010), "A New Method for Interval estimation of the Mean of Gamma Distribution", *Lifetime Data Analysis* **16**,431-447.

9. Kulkarni, H. V. and Patil, V. V (2010), "Power Comparison of Tests for Poisson mean", *International Journal of Commerce and Business Management*, **3**, 247-251.

10. Kulkarni, H.V. and Patil, V.V.(2010), "A Comparative Study of Analysis of 2^n Factorial Experiments with Poisson Distributed Response Variable" *Communications in Statistics: Simulation and Computation* , **39**, 1530-1547.

11. Kulkarni, H.V. and Patil, S.C (2011), "Analysis of 2^n factorial experiments with exponentially distributed response variable", *Applied Mathematical Sciences* **5**, 459-476.

12. Kulkarni, H. V. and Patil, S. C. (2011), "Analysis of 2^n factorial experiments with exponentially distributed response variable: A comparative study", *International Journal of Commerce and Business Managemen,t* **4**, 119-124.

13. Kulkarni, H. V. and Patil, S. C. (2011), "Analysis of 2^n factorial experiments with exponentially distributed response variable", *Applied Mathematical Sciences*, **5**, 459-476.

14. Kulkarni, H. V. andPatil, S. C. (2012), "Some New Methods of Interval Estimation for Expected Response in 2^n Factorial Experiments for Exponentially Distributed Response Variables", To appear in *Proceedings of the international conference on multivariate statistical methods, ISI, Kolkata*.

15. Kulkarni, H. V. and Patil, V. V. (2012), "Comparison of Confidence Intervals for Poisson mean: A review and comparison", *REVSTAT* (To appear)

Refereed articles for the following Journals:

- Journal of Multivariate Analysis
- Metrika
- Journal of Statistical Planning and Inference
- Environmental and Ecological Statistics (2)
- Computational Statistics and Data Analysis (2)
- Journal of Indian Statistical Association. (JISA)

Awards and recognitions received

- **Invited Reviewer for Mathematical Reviews (American Mathematical socity)** : Reviewed following manuscripts:
    - Manuscript No. MR2746158 Hall, Peter; Miller, Hugh, "Bootstrap confidence intervals and hypothesis tests for extrema of parameters". *Biometrika* **97** , 881–892, (2010).
    - Manuscript No. MR2507996 Van de ven, P. M.et al., "on the equivalence of definition for regular fractions of mixed-level fractional design." *J. Statistics Plann. Inference*, **139** (2009)
    - Manuscript No. MR2434410 Ojeda, J.L., A Bootstrap approach to model checking for linear model under length-biased data, *Ann. Inst. Statist. Math*. **3** , 519-543 (2008)
    - Manuscript No. Robert J. "Accurate Confidence interval in regression analysis of non-normal data." *Ann. Inst. Statist. Math.*,1, **60** (2008)
    - MR2341292 Hu, Shaolin; Meinke, Karl; Chen, Rushan; Huajiang, Ouyang, "Iterative estimators of parameters in linear models with partially variant coefficients". *Int. J. Appl. Math. Comput. Sci.* **17** , 179–187, (2007).
    - Manuscript No. MR2279900 Unnikrishnan Nair, et al "On the Confidence of residual lives" *Statistica* , 64 (2004) .

- **Junior Research Fellowship from UGC (NET) (1985)**

Academic Visits:

Indian Statistical institute Kolkata

- 9/11/08 to 15/11/08. (Visiting scientist)
- 25/4/09 to 30/4/ 09, (Collaborative research)
- 21/10/09 to 27/10/09, (Collaborative Research)
- 28/7/10 to 2/8/10 (Visiting scientist)

Presentation at Conferences/Workshops:

CONFERENCES:

Invited talks:

1. Characterizations and Modeling of Multivariate Lack of Memory Property (2005) *International Conference on Reliability and Survival Analysis*. ***Indian Statistical Institute, Delhi***

2. A Comparative Study of 2n Factorial Experiments with Poisson Distributed Response Variable (2007) International Conference of Statistics on the Occasion of the Sesquicentennial Celebration of University of Mumbai, ***University of Mumbai, Mumbai.***

3. Vapnik-Cervonenkis Classes of Sets and Their Applications in Reliability Theory (2008) *International conference on statistical Paradigms: Recent advances and Reconciliations*. ***Indian Statistical Institute, Kolkata.***

4. A New Method for Interval Estimation of the Mean of Gamma Distribution (2009). *International Conference on Recent Developments in Probability and Statistics****, Dept of Statistics, University of Pune, Pune.***

Contributory talks:

1. Characterization of Bivariate Mean Residual Life Function(1993) *Conference of Indian Society for Probability and Statistics Department of Statistics****, University of Pune***,

2. Estimation of Bivariate Mean Residual Life Function (1995) *Conference of Indian Society for Probability and Statistics Department of Statis**., Osmaina University, Hyderabad***.

3. Weak Convergence of Bivariate Empirical Mean Residual Life Process (1999) *National Conference on Statistical Modeling Dept of Statistics,* ***Shivaji University, Kolhapur.***

4. Characterization of Bivariate Lack of Memory Property (2002) *Conference of Indian Society for Probability and Statistics**, University of Pune, Pune.***

5. Bivariate empirical mean residual life function (2005) *A National Workshop on Nonparametric Methods in Statistics* ***Shivaji University, Kolhapur.***

6. A Test for Comparing two Bivariate Mean Rresidual life Functions (2006) *International Conference on Multivariate Statistical Methods* ***Indian Statistical Institute, Kolkata.***

7. Prediction interval for a future observation from Weibull distribution based on a simple normal approximation (2011) *National Seminar on Stochastic Modeling and Analysis* ***Cochin University of Science and Technology, Cochin, Kerala.***

8. A Simple Normal Approximation for Weibull Distribution with Application to Estimation of Upper Prediction Limit (2011) *National Conference on Advances in Statistical Theory and Application**s, Bangalore University, Bangalore.***

9. Applications of Weibull distribution to Environmental science with specific reference to ground water contaminants monitoring.(2012) *International Conference on Multidisciplinary Approaches in Applied Geology**, GKG College, Kolhapur.***

Attended:

1. Conference of Indian Society for Probability and Statistics, (1986), Department of Statistic Shivaji University, Kolhapur.

2. National Conference on Statistical Inference, (1996), Department of Statistics, Shivaji University, Kolhapur.

3. National Seminar on Statistical Inference and Applications, (2009), Department of Statistics, Shivaji University, Kolhapur...

WORKSHOPS:

Coordinated and Resource Person:

1. Colloquium for Faculty and Research Students, (2004), Department of Statistics, Shivaji University, Kolhapur.

2. Colloquium for faculty and research students (2005). Department of Statistics, Shivaji University, Kolhapur.

3. Colloquium for Faculty and research Students (2006). Department of Statistics, Shivaji University, Kolhapur.

4. Net / SET Coaching Workshop for SC / ST Students.(2006). Department of Statistics, Shivaji University, Kolhapur.

5. Net / SET Coaching Workshop for SC / ST Students (2007) Department of Statistics, Shivaji University, Kolhapur.

6. Colloquium for faculty and research students (2008) Department of Statistics, Shivaji University, Kolhapur.

7. Net/SET Coaching Workshop for SC / ST Candidates (2008) Department of Statistics, Shivaji University, Kolhapur.

8. Colloquium for Faculty and research Students (2009) Department of Statistics, Shivaji University, Kolhapur.

9. A National Workshop Design of Experiments and Applications(2010) Department of Statistics, Shivaji University, Kolhapur.

10. Colloquium for Faculty and research Students(2011) Department of Statistics, Shivaji University, Kolhapur.

11. A Two-day workshop on formulation of minor research project proposals in statistics, (2012) Shivaji University, Kolhapur.

Resource person:

1. Refresher Course in Statistics, (2002) Dept. of Stat. ,Shivaji University, Kolhapur.
2. One Day Workshop on Contribution to Statistics by R.A. Fisher (2003) Willingdon College, Sangli.
3. Workshop on Revised Syllabus in B.Sc II. Statistics, (2004), S.G.M. College, Karad.
4. Dept. of Stat., Shivaji University, Kolhapur. (2005), T.Y. B.Sc. workshop
5. Workshop on Revised Syllabus of B.Sc. part I and III, (2008), Vivekanand College, Kolhapur.

Attended:

1. Refresher Course in Statistics (1993) Academic Staff College, Pune.
2. Refresher Course in Statistics (1996) I.S.I. Calcutta.
3. Refresher Course in Statistics (1996) , Shivaji University, Kolhapur.
4. Summer School on Design of Experiment (2000) I.S.I. Calcutta.
5. Workshop on Project Proposals on Data Analysis and Statistical Application" (2001)., Shivaji University, Kolhapur.
6. A Workshop on Multivariate Statistical Methods with Recent Emerging Applications (2007) I.S.I. Calcutta .
7. Workshop on Micro-array Data Analysis Using 'R' software (2007) Shivaji University, Kolhapur.

Membership of Learned Bodies:

- Life member of the Indian Society for Probability and Statistics
- Life member of the Shivaji University Statistics Teachers Association (SUSTA)

Professional Responsibilities:

1) Organized / worked as resource person in several Conferences/ colloquiums / Workshops / Training Courses, for researchers and teachers.
2) Worked as Chairperson for M.Sc./M.Phil, M.Sc. Entrance test Board of Examination
3) Worked as member of BOS sub-committee.
4) Worked as member of various advisory/ Administrative committees at university level.
5) Worked as examiner at Mumbai University (M.Sc.), Shivaji University (M.Sc., M.Phil, PG DAS, MCA,), Bangalore University (M.Sc.), North Maharashtra University, Jalgaon, Karnatak University, Dharwad, MPSC (Maharashtra Public Service Commission) examinations.
6) Worked in various capacities in several activities like Quiz Competition, Project competitions etc. Conducted by SUSTA

Extension work:

1) Consultancy on statistical applications.
2) Teaching assistance to online international courses by Statistics.com
3) Teaching of statistics at interdisciplinary courses (Master of Valuation, Master of Computer Applications, M.Sc. (Biotechnology) etc.
4) Guiding students for several projects and state level Project competitions.