SACHIN MAHADEV PATIL

Designation	:	Temporary Assistant Professor
Organization	:	Department of Statistics, Shivaji University, Kolhapur-416004, INDIA (MS).
Email	:	sachin.patil790@gmail.com
Mobile No.	:	+91-9404960965

Educational Background

- **Ph.D. (Statistics)** Shivaji University, Kolhapur, India (MS). June-2023

  Title: On Multisample Tests in the Presence of Nuisance Parameters

  Guide: Dr. (Mrs.) H.V. Kulkarni

- **SET (Math. Sci.)** SP Pune University, Pune, India (MS). Dec.-2020

- **M.Sc. (Statistics)** Shivaji University, Kolhapur, India (MS). June-2015

- **B.Sc. (Statistics)** Shivaji University, Kolhapur, India (MS). June-2013

Statistical Software Known: MATLAB, MINITAB, R, SPSS, SYSTAT, SAS.

Office Tools: Excel, Word, PowerPoint.

Computer Courses: MS-CIT

Professional Experience

- **Assistant Professor:** November, 2021 to till date. Department of Statistics, Shivaji University, Kolhapur, India (MS).
- **Senior Research Fellow:** July, 2019 to March, 2020. Department of Statistics, Shivaji University, Kolhapur, India (MS). (A major research project funded by National Board for Higher Mathematics).
- **Junior Research Fellow:** June, 2017 to June, 2019. Department of Statistics, Shivaji University, Kolhapur, India (MS). (A major research project funded by National Board for Higher Mathematics).
- **Assistant Professor:** July, 2015 to March, 2017. Department of Statistics, Yashwantrao Chavan Mahavidyalaya, Halkarni, Chandgad, Kolhapur, India (MS).

Courses Taught

- B.Sc. (Statistics): Statistical Methods, Testing of Hypothesis.
- M.Sc. (Statistics/ Applied Statistics and Informatics): Linear Algebra, Data Mining, Sampling Theory and Official Statistics, Biostatistics.

Achievements

- Paper Presentation for **ISPS Young Statistician Award-2023** Competition.
- Recipient of **Dr. M. N. Das Memorial Young Scientist Award-2022.**
- Recipient of **Dr. M. N. Das Memorial Young Scientist Merit Certificate** (2021).
- Recipient of **Dr. M. N. Das Memorial Young Scientist Merit Certificate** (2020).
- Recipient of **Malhotra Weikfield Foundation, Pune, Scholarship** for M.Sc**.** (2013-2015).
- Recipient of **Eklavya Scholarship** (2013-2015).
- Stood **Third** at T.Y. B.Sc. level written quiz competition conducted by SUSTA (2013).

Research

➕ **Research Interests:** Statistical Inference, Design of Experiment

➕ **Research Paper Published**

1. **Patil, S. M.,** & Kulkarni, H. V. (2022). Analysis of medians under two-way model with and without interaction for Birnbaum–Saunders distributed response. *Journal of Applied Statistics*, 1-22.

2. Kulkarni, H. V., & **Patil, S. M.** (2021). Uniformly implementable small sample integrated likelihood ratio test for one-way and two-way ANOVA under heteroscedasticity and normality. *AStA Advances in Statistical Analysis, 105(2),* 273-305.

➕ **Research Paper under Revision/ Preparation**

1. **S. M. Patil** and H. V. Kulkarni. Improved Simultaneous Inference Under Heteroscedastic Variances.
2. **S. M. Patil** and H. V. Kulkarni. A Test for Homogeneity of Scale Parameters under Two-Way Model with Gamma Distributed Response.
3. **S. M. Patil** and H. V. Kulkarni. A Test for Homogeneity of Scale Parameters under Two-Way Model with Weibull Distributed Response.
4. **S. M. Patil** and H. V. Kulkarni. Efficient ANOVA under Inverse Gaussian Distribution.

➕ **Paper Presentation in Conferences/Seminars/Symposium**

1. **"Second-Order Accurate Two-way ANOVA for the Scales of Weibull and Gamma Response under Complete and Censored Data"** in international conference on "Statistics, Probability, Data Science and Related Areas ", during 04-06 January, 2023 held at Department of Statistics, Cochin University of Science and Technology.

2. **"Second-Order Accurate Two-way ANOVA for the Scales of Weibull and Gamma Response under Complete and Censored Data"** in national conference on "Advanced Statistics and Applied Sciences", during 30-31 March, 2022 held at Department of Statistics, Ramanujan College and Ramanujan Center of Applied Mathematics and Research.

3. **"Analysis of Medians under Two-Way Model With and Without Interaction for Birnbaum-Saunders Distributed Response"** in conference on "Recent Advances in Statistical Theory and Applications", during 23-27 February, 2022 held at ICAR-National Academy of Agricultural Research Management, Hyderabad.

4. **"Uniformly Implementable Small Sample Integrated Likelihood Ratio Test for One and Two-Way ANOVA under Heteroscedasticity and Normality"** in conference on Visionary Innovations in Statistical Theory and Applications during 24-28 February, 2021 held at ICAR-National Academy of Agricultural Research Management, Hyderabad.

5. **"Improved Simultaneous Inference under Heteroscedastic Variances"** in National Seminar on Advances in Statistical Modeling and Inference during 14-15 February, 2020 held at Department of Statistics, Shivaji University, Kolhapur.

6. **"Multi-sample Test under Birnbaum-Saunders Distribution"** in National Seminar on Emerging Trends and Innovations in Science and Technology on 1 February, 2020 held at Y. C. College, Halkarni.

7. **"Efficient Universal ANOVA under Inverse Gaussian Distribution"** in International Conference on Importance of Statistics in Global Emerging Scenarios during 2-4 January, 2020 held at Department of Statistics, Savitribai Phule Pune University.

8. **"ANOVA under Birnbaum-Saunders Distribution"** in International Conference on Importance of Statistics in Global Emerging Scenarios during 2-4 January, 2020 held at Department of Statistics, Savitribai Phule Pune University.

9. **"Efficient Universal ANOVA under Inverse Gaussian Distribution"** in International Conference on Computer Age Statistics in the Era of Big and High Dimensional Data during 3-5 January, 2019 held at Department of Statistics, Savitribai Phule Pune University.

10. **"An Integrated Likelihood Approach for ANOVA with Unequal Variances"** in National Seminar on Statistical Modeling and Applications during 23-24 February, 2018 held at Department of Statistics, Shivaji University, Kolhapur.

Invited Lectures

1. Delivered series of lectures in a workshop on "R Programming" organized by Department of Statistics, Vivekanand College, Kolhapur during 20-21 March, 2023.

2. Delivered series of lectures in two day training programme on "Use of R" organized by IQAC and Department of Statistics, Y.C. Mahavidyalaya Halkarni during 5-6 February, 2022.

3. Delivered a lecture in one day workshop on "Skill Development Courses in Mathematics" organized by Department of Mathematics, Yashwantrao Chavan Institute of Science, Satara on 30 June, 2021.

4. Delivered series of lectures in a workshop on "R Programming" organized by Department of Statistics, Vivekanand College, Kolhapur during 11-18 January, 2020.

5. Delivered a lecture in a workshop on "Training Programme for M.Sc. Entrance Examination in Statistics" organized by Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur during 22 April-4 May, 2019.

6. Delivered a lecture in a workshop on "Training Programme for M.Sc. Entrance Examination in Statistics" organized by Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur during 20 April-5 May, 2018.

7. Delivered a lecture in a workshop on "Training Programme for M.Sc. Entrance Examination in Statistics" organized by Department of Statistics, Rajarshi Chhatrapati Shahu College, Kolhapur during 21-30 April, 2017.

Participation in Conferences/ Workshops/ Seminars/ Symposium

- One-day International Symposium on Non-parametric Statistical Methods held on 12 November, 2022, organized by Department of Statistics, Shivaji University, Kolhapur.
- One-day National webinar on Statistical Modelling held on 28 May 2021, organized by Department of Statistics, Shri. Shahaji Chhatrapati Mahavidayalaya, Kolhapur.
- One-day workshop on Scientific Writing held on 31 January 2018, organized by the Research Colloquium of Shivaji University, Kolhapur.
- Instructional School for Teachers on Asymptotic Theory of Statistical Inference jointly organized by National Centre for Mathematics and Department of Statistics, Savitribai Phule Pune University, at the Department of Statistics, Savitribai Phule Pune University, during 23 October - 4 November, 2017.
- Training program on SAS organized by Department of Statistics, Shivaji University, Kolhapur during 16 February - 23 February, 2015.
- Two days Statistical Workshop organized by SUSTA, during 7-8 January, 2012.

Professional Membership

1. Society of Statistics, Computer and Applications