

Dr. Sukumar Vitthal Rajguru

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Personal Details

Date of Birth: 22 November 1989
Citizenship: Indian
Gender: Male
Marital Status: Married
Languages Known: Marathi, Hindi, English

Address for Communication:

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Flat No. 303, Siddhivinayak Shilp Apartment,
Revenue Colony, Sangli, Dist- Sangli, 416416, India (MS)

Academic Details

Examination	Year	Board/University	Class (%)
Ph.D. (Statistics)	Dec 2025	Shivaji University, Kolhapur	–
NET (Mathematical Sciences)	June 2013	CSIR	–
SET (Mathematical Sciences)	Feb 2013	University of Pune	–
M.Sc. (Statistics)	2010–2012	Shivaji University	76.13 (Distinction)
B.Sc. (Statistics)	2007–2010	Solapur University	83.16 (Distinction)
HSC	2007	Pune Board	65.5
SSC	2005	Pune Board	71.73

Title of Ph.D. Thesis: Reliability modeling of unequal load sharing phenomenon.

Software and Programming Skills:

Software: MATLAB, R, MINITAB, SYSTAT, SPSS, SAS
Programming Languages: C, C++, SQL, Python

Experience

- Junior Research Fellow (26 Sept 2012 – 24 Sept 2013), Department of Statistics, Shivaji University, Kolhapur (Rajiv Gandhi National Fellowship)
- Assistant Professor (Leval 10): 25 Sept 2013 to 24 Sept 2019, Department of Statistics, Shivaji University, Kolhapur.

- Assistant Professor (Senior Scale) (Level 11): 25 Sept 2019 to Till date, Department of Statistics, Shivaji University, Kolhapur.

Courses Taught

M.Sc. Statistics: Fundamental of Computer Programming, Database Management System, Estimation Theory, Testing of Hypothesis, Asymptotic Inference, Sampling Theory, Optimization Techniques, Linear Models and Regression Analysis, Generalized Linear Models, Multivariate Analysis, Time Series Analysis.

Co-curricular and Extension Activities

Department Level

- Co-ordinator, M. Sc. (Applied Statistics and Informatics) (since 17 September 2025).
- Member, Organizing Committee for National Science Day 2024; also served as Examiner for Essay Competition (26 February – 2 March 2024).
- Member, Sub-Committee for Revision of M.Sc. Syllabus (Statistics / Applied Statistics and Informatics): Part II (implemented from 2024–25) and Part I (implemented from 2023–24).
- Member, Indian Council for Cultural Relations (ICCR) International Students Admission Process for M.Sc. Statistics, Shivaji University, Kolhapur (Academic Year 2022–23).
- Departmental Information Officer (since 2019).
- Secretary, Departmental Committee (since 2019).
- Facilitator for SWAYAM Courses at the Department (since 2019).
- Coordinator, Departmental Scholarship Related Activities (since 2015).
- Member, Departmental Admission Committee.

University Level

- University SWAYAM Mentor for various departments (since 2023).
- Examination Duty Officer, Shivaji University, Kolhapur, for conduct, supervision, and result processing of B.Sc./M.Sc. examinations (February 2023).
- Member, Committee for Analysis of Stakeholder Data for the Five-Year Perspective Plan (2024–25 to 2028–29), Shivaji University, Kolhapur.
- Member, NAAC Criterion-Wise Committee (Criterion 9: Research and Innovation Outcomes), Internal Quality Assurance Cell (IQAC), Shivaji University, Kolhapur (5th Cycle NAAC Accreditation).

Research

Current Research Interests

- Reliability Theory and Survival Analysis
- Statistical Inference

Publications

- Suryawanshi, S. S., Rajguru, S. V., Ghadge, S. B., and Dhikale, S. G. (2026). Effect of different poultry diets on growth performance of poultry chicks: A case study from a poultry farm. *AIJFR–Advanced International Journal for Research*, 7(2).
- Rajguru, S. V., and Sutar, S. S. (2026). Modeling unequal load-sharing in k-out-of-m systems using accelerated failure time models. *Journal of the Indian Society for Probability and Statistics*, 1–35.
- Rajguru, S. V., and Sutar, S. S. (2025). Modeling reliability in k-out-of-m systems with unequal load sharing using proportional conditional reverse hazard rate. *Reliability: Theory and Applications*, 20(1), 454–471.
- Rajguru, S. V., and Sutar, S. S. (2025). Parameter estimation for parallel-connected systems with uneven load-sharing for censored data. *Asian Journal of Statistical Sciences*, 4(2), 63–81.
- Sutar, S. S., Rajguru, S. V., Patil, P. S., and Pawar, S. D. (2025). Reliability analysis of load sharing systems under unequal load-sharing rule with applications. *Communications in Statistics–Theory and Methods*, 54(13), 3938–3960.
- Dandge, R. S. V., Kulkarni, A. S., Nadaf, S. H., Dandge, P. B., & Shinge, A. J. (2024). Phytochemistry and therapeutic potential of the medicinal plant: *Withania coagulans*. *International Journal of Ayurvedic and Herbal Medicine*, 14(6), 4582–4590.

Paper Presentations in Conferences

- Presented a research paper entitled “Reliability Modelling & Inference for Parallel k-out-of-m Load Sharing Systems under Unequal Load Distribution” at the National Conference on “Mathematical and Statistical Computing (NCMCS-26),” organized by the School of Computational Sciences, Punyashlok Ahilyadevi Holkar Solapur University, Solapur, during 09–10 February 2026.
- Presented a research paper entitled “Reliability Modeling of Parallel Connected k-out-of-m Load-Sharing Systems under Type-I and Type-II Censoring” at the International Conference on “Recent Advances and Innovative Statistics with Enhancing Data Science,” jointly organized by the Indian Society for Probability and Statistics (ISPS) and the Department of Mathematics, School of Advanced Sciences, VIT-AP University, Amaravati, India, held at VIT-AP University, Amaravati, during 22–24 December 2025.
- Presented a research paper entitled “Reliability Analysis of k-out-of-m Systems with Unequal Load Sharing: A Conditional Reverse Hazard Rate Approach” at the National Conference on “Modern Applications of Statistical Science,” held at the Department of Statistics, Punyashlok Ahilyadevi Holkar Solapur University, Solapur, on 28 September 2024.
- Worked as a Session Chair for the two-day National Conference on “Modern Applications of Statistical Science,” organized by the Department of Statistics, School of Computational Science, Punyashlok Ahilyadevi Holkar Solapur University, Solapur, under the MERU Grant of Pradhan Mantri Uchcharat Shiksha Abhiyan, during 27–28 September 2024.
- Presented a research paper entitled “Exploring Accelerated Failure Time Models in Load Sharing Systems with Unequal Load” at the Ninth International Conference on “Recent Trends in Statistical Theory and Applications–2024,” held at the Department of Statistics,

School of Physical & Mathematical Sciences, University of Kerala, Thiruvananthapuram, on 29 June 2024.

- Presented a research paper entitled “Accelerated Failure Time Model for Load Sharing Systems with Unequal Load Share Rule” at the conference on “Advances in Data Analytics and Official Statistics,” held at the Department of Statistics, Savitribai Phule Pune University (SPPU), Pune, on 26 May 2024.
- Presented a research paper entitled “One Way ANOVA with Unequal Variances” at the “National Conference on Applied Statistics and Informatics,” held at the Department of Statistics, Shivaji University, Kolhapur, on 11 March 2017.
- Presented a research paper entitled “Integrated Likelihood Ratio Test for One Way ANOVA with Unequal Variance” at the “International Conference on Statistics and Information Technologies for a Growing Nation along with the 34th Annual Convention of ISPS,” held at Sri Venkateswara University, Tirupati, during 30 November–02 December 2014.

Delivered Talk as a Resource Person

- Delivered Invited Talk on “Socio-Economic Inequality in Western Maharashtra: A Census 2011 Study” in the One Day Workshop on “Official Statistics”, organized by Department of Statistics, IQAC, Balwant College, Vita, in collaboration with Shivaji University Statistics Teachers’ Association, Kolhapur, 18 February 2026.
- Delivered Invited Talk on “Data Analysis & Interpretation with SPSS (with hands-on practice)” during Faculty Development Programme on “Scope for Research & Innovation in NEP”, organized by Maharashtra State Faculty Development Academy (MSFDA), Pune, at Arts, Commerce and Science College, Palus, Dist. Sangli, 03 January 2026.
- Worked as Resource Person in PM-USHA Sponsored Management Development Programme on “Use of Excel for Data Analysis and Banking Regulatory Compliance”, organized by Department of Statistics, Shivaji University, Kolhapur, 26 July 2025.
- Worked as a Resource Person in the two-day Capacity Building Programme on “An Introduction to Data Analysis using Excel, SPSS, and R,” organized by the Department of Economics, Shivaji University, Kolhapur, on 26–27 September 2024.
- Worked as a Resource Person in the workshop entitled “Visualization, Processing and Interpretation of Biological Data,” conducted by the Department of Botany, Shivaji University, Kolhapur, on 27 July 2024.
- Delivered lectures in the Ph.D. coursework on the subject “Use of SPSS for Statistical Analysis,” organized by the Department of Education, Shivaji University, Kolhapur, on 20 May 2024.
- Delivered lectures to M.Sc. Statistics students of Vivekanand College, Kolhapur, on “Optimization Techniques and Their Applications,” on 24 and 26 April 2024.
- Worked as a Resource Person for the SET/NET Guidance Workshop organized by the Department of Statistics, Punyaslok Ahilyadevi Holkar Solapur University, Solapur, on 27 March 2024.
- Delivered lectures in the Ph.D. coursework for Engineering and Pharmacy on the subject “Research Methodology,” organized by the Department of Technology, Shivaji University, Kolhapur, in December 2023.

- Worked as a Resource Person in the one-day workshop on “Use of MS Excel for Statistical Analysis,” organized by Doodhsakhar Mahavidyalaya, Bidri, under the Lead College Cluster of Sadashivrao Mandalik Mahavidyalaya, Murgud, Shivaji University, Kolhapur, on 18 March 2023.
- Delivered lectures on “Statistical Analysis using SPSS” in the bridge course for Ph.D. students of the Department of Education, Shivaji University, Kolhapur, on 24 May 2023.
- Delivered a lecture on “EM Algorithm and Its Applications” to M.Sc. I Statistics students of Rajarshi Chhatrapati Shahu College, Kolhapur, on 19 December 2022.
- Delivered a lecture on “Analysis of Non-Normal Data” to B.Sc. Part III students of Padma Bhushan Vasantdada Patil Mahavidyalaya, Kavathe Mahankal, on 5 December 2022.
- Worked as a Resource Person in the one-day workshop on the revised syllabus of B.Sc. Part I Statistics of Shivaji University, Kolhapur, organized by Padma Bhushan Vasantdada Patil Mahavidyalaya, Kavathe Mahankal, on 5 December 2022.
- Delivered lectures in the five-day workshop on “Hands-on Training using SAS Programming” (under RUSA) for M.Sc. II Statistics students of the Department of Statistics, Sadguru Gadage Maharaj College, Karad, held during 22–26 July 2022.
- Delivered seven lectures in the Value-Added Course on “Introduction to Base SAS” to M.Sc. II (Statistics/Applied Statistical Informatics) students, offered by the Department of Statistics, Shivaji University, Kolhapur, during 19–23 March 2022.
- Worked as a Subject Expert in Mathematics and Statistics for the post-presentation session of the two-day online International Conference on “Advances in Science and Technology,” organized by Rajarshi Shahu College, Kolhapur, on 9 March 2022.
- Delivered a guest lecture on “Statistics in France,” organized by the Department of Botany, Karmavir Bhaurao Patil Mahavidyalaya, Pandharpur, on 22 March 2021.
- Worked as a Resource Person in the two-day workshop on “Statistical Analysis using SPSS” under the Star College Scheme of DBT, organized by the Department of Statistics, Yashwantrao Chavan Institute of Science, Satara, on 27–28 March 2021.
- Worked as a Resource Person for the online workshop on the revised syllabus of Statistics for B.Sc. III (Semester V and Semester VI) of Shivaji University, Kolhapur, organized by RCH College, Kolhapur, on 1 February 2021.
- Worked as a Resource Person for the online workshop on the revised syllabus of Statistics for B.Sc. III (Semester VI) of Shivaji University, Kolhapur organized by Adarsh College, Vita.
- Delivered a lecture in the Pre-Ph.D. coursework organized by the Department of Technology during 21 December 2020–29 December 2020.
- Worked as a Resource Person in the webinar series on “General Paper: Teaching and Research Aptitude” for the SET/NET Examination, organized by the Sub-Center Ratnagiri, University of Mumbai, during 5 November–23 November 2020.
- Delivered a lecture on *Statistical Analysis using SPSS* for M.Ed. students under the UGC Remedial Coaching Scheme in the Department of Education, Shivaji University, Kolhapur, on 29 January 2020.

- Worked as a Resource Person in the Refresher Course in Statistics organized by the Department of Statistics, Shivaji University, Kolhapur, under the auspices of UGC-HRDC, Savitribai Phule Pune University, Pune, during 25 February–09 March 2020.
- Worked as a Resource Person for the Faculty Development Programme on Research in the BFSI Sector at Phondaghat Education Society’s Arts and Commerce College, Phondaghat, during 29 February–09 March 2020, under PMMMMNMTT, MHRD, New Delhi.
- Worked as a Resource Person for the Faculty Development Programme on Research in the BFSI Sector at Rajaram College, Kolhapur, during 20 February–04 March 2020, under PMMMMNMTT, MHRD, New Delhi.
- Delivered a talk in the Refresher Course in Statistics, Department of Statistics, Shivaji University, Kolhapur, under UGC-HRDC, Savitribai Phule Pune University, during 25 February–09 March 2020.
- Worked as a Resource Person in the workshop on “Preparation for SET/NET Examinations,” Sadguru Gadge Maharaj College, Karad, on 03 January 2020.
- Delivered a lecture on “SPSS Package” at the Department of Journalism and Mass Communication, Shivaji University, Kolhapur, on 21 December 2019.
- Worked as a Resource Person in the workshop on “Preparation for SET/NET Examinations,” Solapur University, during 05–06 March 2019.
- Worked as a Resource Person in the two-day workshop on “Applications of Software in Statistics,” Sadguru Gadge Maharaj College, Karad, during 23–24 February 2019.
- Worked as a Resource Person in the one-day state-level workshop on “Statistical Analysis using R Programming,” Sangameshwar College, Solapur, on 05 February 2019.
- Worked as a Resource Person in the Faculty Development Programme on “Research in the BFSI Sector,” Rajaram College, Kolhapur, during 03–12 May 2019, under PMMMMNMTT, MHRD, New Delhi.
- Worked as a Resource Person in the workshop on “Preparation for SET/NET Examinations,” Solapur University, on 09 February 2018.
- Worked as a Resource Person in the five-day workshop on “SAS University Edition,” SDM College, Ujire, during 05–09 January 2018.
- Worked as a Resource Person in the State-Level Workshop on “SET/NET Guidance in Statistics,” New Arts, Commerce and Science College, Ahmednagar, on 25 December 2017.
- Worked as a Resource Person in the one-day workshop on “R Software” under Lead College Activity, Sadguru Gadge Maharaj College, Karad, on 28 December 2016.
- Worked as a Resource Person in the workshop on “Statistical Data Analysis using SPSS,” Department of Statistics, Shivaji University, Kolhapur, during 06–11 June 2016 and 26–31 December 2016.
- Worked as a Resource Person in the one-day workshop on “R Software” under Lead College Activity, Yashwantrao Chavan Institute of Science, Satara, on 05 February 2015.

- Worked as a Resource Person in the one-day workshop on “Statistical Software” under Lead College Activity, Department of Statistics, Balasaheb Desai College, Patan, on 21 January 2015.
- Worked as a Resource Person in the UGC-sponsored “Training Programme on Computational Statistics using R,” Department of Statistics, Shivaji University, Kolhapur, during 17–22 November 2014.
- Worked as a Resource Person in the State-Level Workshop on NET/SET Examination Guidance, Yashwantrao Chavan Institute of Science, Satara, on 21 February 2014.
- Worked as a Resource Person in the workshop on “Preparation for SET/NET Examinations,” Solapur University, on 29 October 2013.

Participation in Various Academic Events

Orientation Programme

- Orientation Programme, Department of Education, Shivaji University, Kolhapur, 02–03 September 2014.
- Orientation Programme, HRDC Centre, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 06 February – 05 March 2017.

Refresher Courses

- Refresher Course in “Mathematical Sciences”, HRDC Centre, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 23 September – 06 October 2019.
- Refresher Course in “Statistics”, Teaching Learning Centre, Ramanujan College, University of Delhi, 30 November – 14 December 2023.

Faculty Development Programmes

- FDP on “Time Series Modelling and Forecasting with Applications in R”, NPTEL, IIT Mumbai, 01 January – 30 April 2025.
- FDP on “Predictive Analytics – Regression and Classification”, IIT Chennai (SWAYAM), 01 January – 30 April 2025.
- FDP on “Quantitative Methods for Data Analysis”, Teaching Learning Centre, Ramanujan College, University of Delhi, 12–25 August 2020.
- Five-Day Workshop on “Enhancing Teaching and Learning Skills in Statistics”, TLC, Central University of Rajasthan, 12–16 March 2019.
- FDP on “Android Development Fundamentals”, Department of Computer Science, Shivaji University, Kolhapur, 04–08 July 2017.

Seminars / Conferences / Workshops Attended

- Participated in the ANRF PAIR-sponsored mini workshop on “Proposal Writing, Research Grant Management, and Research Ethics in Science and Technology,” jointly organized by the ANRF PAIR Team, Shivaji University, Kolhapur, and the ANRF PAIR Team, IISc Bangalore, on 25 February 2026.

- Attended PM-USHA Sponsored Interdisciplinary Workshop on “In Memory of the Gadgils: Climate, Ecology and Statistics for Sustainable Agriculture”, organized by Department of Statistics and Centre for Excellence in AI for Sustainable Development (Co-EAISD), Shivaji University, Kolhapur, 09 February 2026.
- Participated in the two-day symposium on “Statistical Exploration of Real Problems,” organized by the Department of Statistics, Shivaji University, Kolhapur, on 23–24 February 2024.
- One Day Workshop on “Students Council Election”, Department of Students’ Development, Shivaji University, Kolhapur, 15 June 2019.
- Workshop on “Statistics Careers in Clinical Trials”, Cytel Statistical Software and Services Pvt. Ltd., Pune, 14 December 2014.
- Workshop on “Moodle Course Management System”, Department of Computer Science, Shivaji University, Kolhapur, 19 September 2013.
- International Workshop “Statistics in Action”, International Statistical Institute with YCMOU and B.Y.K. College, Nashik, 07–10 March 2013.
- National Workshop on “Recent Trends in Statistics”, Yashwantrao Chavan Institute of Science, Satara, 14–15 December 2012.
- National Seminar on “Recent Development in Statistical Modeling”, Department of Statistics, Shivaji University, Kolhapur, 12–13 October 2012.

Seminars / Conferences / Workshops Organized

Member of Organizing Committee

- Member, PM-USHA Sponsored Management Development Programme on “Use of Excel for Data Analysis and Banking Regulatory Compliance”, organized by Department of Statistics, Shivaji University, Kolhapur, 26 July 2025.
- Member, Organizing Committee, International Conference on “Advances in Statistical Methods, Data Science and Official Statistics,” Department of Statistics, Shivaji University, Kolhapur (19–21 June 2025).
- Two-day Symposium on “Statistical Exploration of Real Problems” (as a part of National Science Day 2024), 23–24 February 2024.
- National Seminar on Advances in Statistical Modelling and Inference, 14–15 February 2020.
- National Seminar on Statistical Modelling and Applications, Shivaji University, Kolhapur, 23–24 February 2018.
- National Conference on Applied Statistics and Informatics, Shivaji University, Kolhapur, 10–11 March 2017.
- UGC Sponsored Two Day Conference on Applied Statistics, Department of Statistics, Shivaji University, Kolhapur, 11–12 March 2016.
- National Science Day 2014, Shivaji University, Kolhapur.
- National Symposium on Business Analytics and Data Mining, Department of Statistics, Shivaji University, Kolhapur, 21–22 March 2014.

Coordinator

- One-day Workshop on “Statistical Exploration of Real Problems”, organized by Department of Statistics, Shivaji University, Kolhapur, 10 February 2026.
- One-day Workshop on “75 Years of NSS”, organized by Ministry of Statistics and Programme Implementation (MoSPI), National Statistics Office (NSO), Kolhapur and Department of Statistics, Shivaji University, Kolhapur, 12 August 2025.
- One-day Workshop on “Statistical Exploration of Real Problems”, organized by Department of Statistics, Shivaji University, Kolhapur, 15 February 2025.
- Coordinator, Value-Added Course on “Introduction to Base SAS” for M.Sc. II (Statistics/Applied Statistical Informatics) students, organized during 20 July–01 August 2024 and 24–28 July 2023.
- Workshop on “Statistical Data Analysis Using SPSS”, Department of Statistics, Shivaji University, Kolhapur, 26–31 December 2016.
- Workshop on “Statistical Data Analysis Using SPSS”, Department of Statistics, Shivaji University, Kolhapur, 06–11 June 2016.