



FACULTY PROFILE

Name: Dr. Jaya Laxman Limbore
Designation: Assistant Professor,
Department of Statistics
M.E.S Abasaheb Garware College (Autonomous), Pune - 04
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Date of Birth: 17th February 1990

EDUCATION

- Ph.D (Statistics), 2017, JJT University, Rajasthan.
- M.Sc. (Statistics), 2013, University of Pune with 3.85/6 GPA.
- B.Sc. (Statistics), 2011, University of Pune, with First Class with Distinction.
- H.S.C. (Science), 2008, Vijaysinh Mohite Patil College, Natepute with First Class.
- S.S.C., 2006 H.V.S. Shindewadi, Pune Board with First Class with Distinction.

PREVIOUS TEACHING EXPERIENCE:

Assistant Professor with the Department of Statistics, **Tuljaram Chaturchand College of Arts, Science and Commerce Baramati** from academic year 2013-2014 to academic year 2018-2019.

COMPUTER KNOWLEDGE:

- Completed certificate course: MS-CIT (2008)
- Programming Languages: C, C++ and Python.
- Knowledge of Software: MS-EXCEL, R, SY-STAT, MINITAB, MATLAB

PAPERS TAUGHT

- **Discrete Probability and Probability Distributions (F. Y. B.Sc.)**
- **Descriptive Statistics-I (F. Y. B.Sc.)**
- **Descriptive Statistics-II (F. Y. B.Sc.)**
- **Statistical Methods-II (F. Y. B.Sc. Computer Science)**
- **Discrete Probability Distributions, Time Series and R Software (S. Y. B.Sc.)**
- **Statistical Methods and Use of R Software (S. Y. B.Sc.)**
- **Continuous Probability Distributions (S. Y. B.Sc.)**
- **Sampling Distributions and Exact Tests (S. Y. B.Sc.)**
- **Data Analysis with R Software (S. Y. B.Sc.)**
- **Design of Experiments (T. Y. B.Sc.)**
- **Operations Research (T. Y. B.Sc.)**
- **Sampling Theory (T. Y. B.Sc.)**
- **Testing of Hypothesis (T. Y. B.Sc.)**
- **Statistical Process and Product Control (T. Y. B.Sc.)**
- **Sampling Theory (M.Sc.)**
- **Design of Experiments (M.Sc.)**
- **Limit Theorems and Convergences (M.Sc.)**
- **Probability Theory (M.Sc.)**
- **Statistical Process Control (M.Sc.)**

ACADEMIC PROJECTS

1. Project work entitled “**Authorship attribution using statistical techniques**” which was carried out during Academic Year of **M.Sc. (Statistics) 2012-2013**.
2. Project work entitled “**A study of cross breeding technique on goat.**” which was carried out during Academic Year of **T.Y.B.Sc. 2010-2011**.

AWARDS AND HONORS

- 1) **Late Dr. Sudhakar Kunte Award** – University of Pune.
- 2) Received Best Paper Presentation award in Academician category for the paper titled “Sampling Distribution of Sample Mean and Sample Maximum under Simple Random sampling and Stratified Sampling: A Comparative Study” in National Conference on Fostering Human Resilience: Catalyst for Management, Science and Technology, organized by Anekant Institute of Management Studies (AIMS), Baramati In association with All India Council for Technical Education (AICTE) on 8th October 2021 to 9th October 2021.

MEMBER OF VARIOUS BODIES/COMMITTEE

- 1) **Special Invitee Member** of 7th Economic Census, Government of Maharashtra.
- 2) Deputed as a **field trainer** by MES Abasaheb Garware College in Pune corporation area for Census-2021 (Govt. of India).
- 3) **Member of BoS** in Statistics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati.

MEMBER OF VARIOUS COLLEGE COMMITTEE

- 1) Member of Admission committee
- 2) Member of Research committee
- 3) Member of Skill Development committee
- 4) Member of Sign Board committee
- 5) F. Y. B. Sc. class guardian
- 6) AISHE Nodal Officer, MES Abasaheb Garware College, Pune.

RESEARCH PUBLICATION:

- 1) **Limboe J. L.** and Gurao R.G. (2015). Sampling Distribution of Sample Maximum Under Different Sampling Designs *Golden Research Thoughts*, ISSN No. 2231-5063, Impact Factor:3.4052(UIF)
- 2) Jagtap A.S., **Limboe J.L.** and Gurao A.R. (2015) Demography of Maharashtra: A Literacy Rate Approach. *Centum*, ISSN No. 2231-1475, volume 8, special issue-4, PP 239-250.

- 3) **Limboire J. L.** and Gurao R.G. (2016). Maximum Ranked Set Sampling for Estimating Population Maximum. *International Journal of Latest Trends in Engineering and Technology (IJLTET)*, ISSN No. 2278-621X, Index Copernicus, ICV - 77.02/100 Index Copernicus, ICV - 7.39/10 e-ISSN : 2278-621X Cosmos Impact Factor - 4.490/10 Global Impact Factor - 0.685/1 p-ISSN : 2319-3778, volume 6, issue-4, PP 18-23.
- 4) **Limboire J. L.** and Gurao R.G. (2016). Estimation of Population Size Using Sample Maximum. *International Journal of Science and Research (IJSR)*, ISSN No. 2239-7064, Impact Factor-6.391, volume 5, issue-5, PP 2086-2088.
- 5) Jagtap A.S. and **Limboire J.L.** (2018) Authorship Attribution Using Markov Chain. *International Journal of Latest Trends in Engineering and Technology (IJLTET)*, ISSN No. 2278-621X, volume 9, issue-3, Index Copernicus, ICV - 77.02/100 Index Copernicus, ICV - 7.39/10 e-ISSN : 2278-621X Cosmos Impact Factor - 4.490/10 Global Impact Factor - 0.685/1 p-ISSN : 2319-3778, PP 119-125.
- 6) Jagtap A.S. and **Limboire J.L.** (2018). Construction of Decision Trees Using Decision Rules. *International Journal of Latest Trends in Engineering and Technology (IJLTET)*, ISSN No. 2278-621X, volume 9, issue-3, Index Copernicus, ICV - 77.02/100 Index Copernicus, ICV - 7.39/10 e-ISSN : 2278-621X Cosmos Impact Factor - 4.490/10 Global Impact Factor - 0.685/1 p-ISSN : 2319-3778, PP 126-132.
- 7) Jagtap A.S., **Limboire J.L.** and Dhane N.K. (2018). Attribution of Authors Using Data Mining Techniques. *International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS)*. Global Impact factor - 0.654, e-ISSN 2319-1953 Vol.(7), Issue(3), PP 1-5.
- 8) Jagtap A.S., **Limboire J.L.** and Dhane N.K. (2018). Popular Decision Tree Algorithm: A Survey. *International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS)*. Global Impact factor - 0.654, e-ISSN 2319-1953, Vol.(7), Issue(3), PP 1-6.
- 9) Jagtap A.S., **Limboire J.L.** and Dhane N.K. (2018). Decision Rule for Classical Ignorance: A Survey. *International Journal of Scientific Research in Computer Science Applications and Management Studies (IJSRCSAMS)*. Global Impact factor - 0.654, e-ISSN 2319-1953, Vol.(7), Issue(4), PP 1-6.
- 10) Jagtap A.S., **Limboire J.L.** and Dhane N.K. (2018). Pruning Strategies for Decision Trees. *Journal of Emerging Technologies and Innovative Research (JETIR)*. Impact factor – 5.87, ISSN 2349-5162, Vol.(5), Issue(8), PP 331-337.

- 11) Dhane N.K., Jagtap A.S. and **Limbore J.L.** (2018). A Comparison Between Traditional and Data-Driven Statistical Predictive Techniques. *Journal of Emerging Technologies and Innovative Research (JETIR)*. Impact factor – 5.87, ISSN 2349-5162, Vol.(6), Issue(2), PP 684-686.
- 12) **Limbore Jaya L.**, Jagtap Avinash S. (2019). Estimation of Population Maximum Using Sample Order Statistics. *International Journal of Research and Analytical Reviews (IJRAR)*, Impact factor – 5.75, ISSN 2349-5138, Vol.(6), Issue(1), PP 29-33.
- 13) **Limbore Jaya L.**, Jagtap Avinash S. (2019). Estimation of Population Maximum Using Sample Order Statistics and Ranked Set Sampling. *International Journal of Scientific Research and Review (IJSRR)*, Impact factor – 5.75, ISSN 2279-543X, Vol.(8), Issue(5), PP 1282-1287.
- 14) Jagtap A.S. and **Limbore J.L.** (2019). Systematic Approach towards Decision Making. *Review of Research*, Vol. (8), Issue (8), May 2019, pp 1-5, Impact Factor – 5.7631(UIF), ISSN 2249-894X.
- 15) **Limbore Jaya L.**, Jagtap Avinash S., Shelake Chakradhar G. (2021). Sampling Distribution of Sample Mean and Sample Maximum under Simple Random sampling and Stratified Sampling: A Comparative Study. *Vidyabharati International Interdisciplinary Research Journal (Special Issue)*, UGC CARE LIST-II, ISSN 2319-4979.
- 16) Trupti Shilnath Aras and **Jaya L. Limbore (2023)**. Study of Different Similarity Measure Functions with Reference to Cluster Analysis. *JJTU Journal of Renewable Energy Exchange*, ISSN: 2321-1067 Volume 11 Issue 2 (2023), PP 97-102.

PATENTS PUBLISHED:

| Sr. No. | Title of Invention | Date of Filing | Publication Date | National /International |
|----------------|---|-----------------------|-------------------------|--------------------------------|
| 1 | Room Air Pollution Monitoring System using IoT Based | 10/12/2021 | 14/01/2022 | National |
| 2 | A System for Relationship-based New K-line Clustering Patent No :-202023103509 | 25/06/2023 | 10/07/2023 | International |
| 3 | A System and Method for Clustering Data Based on Linear Patterns. | 19/02/2024 | 15/03/2024 | National |

RESEARCH GUIDANCE:

| Sr.No. | Name of Scholar | Name of University | Awarded/ Submitted | Title of the Research |
|---------------|------------------------|--------------------------------|---------------------------|--|
| 1 | Trupti Aras | Shri JTT University, Rajasthan | Awarded | Clustering Strategies using Different Similarities Measures. |

CONFERENCES/SEMINARS

- 1) Attended National Conference on "Recent Developments in Mathematics and Statistics" organized by UGC, Marathwada Mathematical Society and T. C. College Baramati, Dist : Pune on 14th to 16th Feb. 2013.
- 2) Attended International Conference on "Mathematical Sciences – 2015 (MSC-2015)" organized by Sadguru Gadage maharaj College, Karad, Dist : Satara on 15th to 16th Sept. 2015.
- 3) Presented a paper on "Sampling Distribution of Sample Maximum Under Different Sampling Designs" ISSN 2231-5063 in National Seminar on "Recent Developments in Applied Statistics (NSRDAS-2015)" at Balwant College, Vita, Dist- Sangli (M.S.) on 25th and 26th Sept.2015.
- 4) Attended International Conference on "Research Management" organized by Shri Jagdishprasad Jhabarmal Tibrewala University, Vidya nagari, Chudela, Jhunjhunu, Rajasthan on 30th Oct to 1st Nov. 2015.
- 5) Attended International Conference on "Celebrating Statistical Innovation and Impact in a World of Big and Small Data" organized by the Department of Statistics and Centre for Advanced Studies, Savitribai Phule Pune University, Ganeshkhind, Pune-411007, India in conjunction with International Indian Statistical Association (IISA) on 20th to 24th Dec. 2015.
- 6) Attended International Conference on "Plant Research and Resource Management" organized by Tuljaram Chaturchand College, Baramati on 11/02/2016 to 13/02/2016.
- 7) Presented a paper on "Socio-economic Progress of Maharashtra" in National conference on "Demographic Shift-Road to Sustainable Development" at Jashbhai Maganbhai patel college of Commerce, M. G. Road, Near Azad Maidan Goregaon (W) Mumbai-400090 on 23rd Feb. 2015.
- 8) Participated in National Conference on "Recent Trends in Physical, Chemical and Biosciences (RTPCB-2016)" at V.P. College, Baramati on 16/12/2016 to 17/12/2016.

- 9) Participated in International Conference on “Applied Nanotechnology and Nanoscience” at Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati on 07th to 9th December 2017.
- 10) Presented a paper on “A Study of Merit-cum-means Based Scholarship Scheme.” in State Level Seminar on Recent Application of Mathematics and Statistics, organized by Smt. Pushpati Hiray Arts, Sci. & Comm. Mahila Mahavidyalaya, Malegaon on 3rd February, 2018.
- 11) Presented a paper on “Estimation of Population Maximum Using Sample Order Statistics” in National Conference Recent Advancements in Statistics and Their Application to the Society New Arts, Commerce and Science College, Ahmednagar on 17th January 2019 to 18th January 2019.
- 12) Presented a paper on “Composite Sampling and Use of Composite Sampling to Obtain Sample Maximum” in International Conference on Mathematical Modelling, Computational Intelligence Techniques and Renewable Energy (MMCITRE-2021) organized by Pandit Deendayal Petroleum University, Gujrat during 6th February 2021 to 8th February 2021.
- 13) Presented a paper on “Sampling Distribution of Sample Mean and Sample Maximum under Simple Random sampling and Stratified Sampling: A Comparative Study” in National Conference on Fostering Human Resilience: Catalyst for Management, Science and Technology, organized by Anekant Institute of Management Studies (AIMS), Baramati In association with All India Council for Technical Education (AICTE) on 8th October 2021 to 9th October 2021.

EXAMINATION WORK

- 1) Paper Setter and Examiner for UG examinations (Statistics) of SPPU.
- 2) Paper Setter and Examiner, M.Sc. I (Statistics) & M. Sc. II (Statistics).

DELIVERED GUEST LECTURE

- 1) Delivered Guest lecture on Factorial Experiment for T. Y. B. Sc. Students at T. C. College, Baramati.(14/09/2019)
- 2) Delivered Guest lecture on Type I and Type II Censoring for M. Sc. II Students at T. C. College, Baramati.(20/02/2020).

CONTRIBUTION IN SYLLABUS FRAMING

- 1) Contributed in Syllabus framing at Tuljaram Chaturchand College of Arts Science and Commerce, Baramati for F.Y.B.Sc., F.Y.B.Sc. (Computer Science), S.Y.B.Sc., T.Y.B.Sc., F.Y.B.Com., S.Y.B.Com., T.Y.B.Com., M.Sc. - I Statistics and M.Sc.- I Statistics.
- 2) Contributed in Syllabus framing at Tuljaram Chaturchand College of Arts Science and Commerce, Baramati for S.Y.B.Sc. and M.Sc. - II Statistics.

PARTICIPATION/WORKSHOPS ATTENDED

- 1) Six days workshop on “Set/Net in Statistics” at Tuljaram Chaturchand College, Baramati on 14th to 19th March, 2016.
- 2) Completed “Basic Python Programming Certificate Course” organized by Department of Statistics, Tuljaram Chaturchand College, Baramati during 12th January 2019 to 24th February 2019.
- 3) One day workshop on “Syllabus restructuring of revised syllabus for F. Y. B. Com. (Mathematics, statistics and computer application)” at Tuljaram Chaturchand College, Baramati on 21st May, 2019.
- 4) Attended a two days” workshop on “Restructuring Statistics syllabi of S.Y.B.Sc. & S.Y.B.A. (CBCS pattern), Review and discussion of F.Y.B.Sc., F.Y.B.A. and F.Y.B.Sc. (C.S.) Statistics syllabi (CBCS pattern)” at Poona College during 8 - 9 January 2020.
- 5) Participated in a four day “Capacity Building ICT Workshop” organized by IQAC and Department of Computer Science of Abasaheb Garware College, started on 29th April 2020.
- 6) Participated in a three day “Python Programming For Beginners” workshop organized by AIS Solution PVT. LTD. during 9th May 2020 to 11th May 2020.
- 7) Completed R test organized by Sinhgad College of Engineering, Vadgaon with course material provided by the Spoken Tutorial Project, IIT Bombay.
- 8) Participated in ““COVID-19’ Pandemic General Awareness Quiz” for Spreading Awareness About the Mode of Transmission of COVID-19 Organized by IQAC of MES Abasaheb Garware College, Pune on 4/25/2020.
- 9) Participated in ““COVID-19’ Pandemic General Awareness Quiz” organized by Sangameshwar College, Solapur.

ORIENTATION/ FACULTY DEVELOPMENT PROGRAMME

- 1) Participated in online Faculty Development Programme in Drupal (Open Source Content Management System) organized by the Department of Computer Science in association with Spoken Tutorial Project, IIT Bombay from 11-05-2020 to 15-05-2020.
- 2) Participated in One Week Online Faculty Development Program on “R - Language for analytics and Data Science” organized at Sinhgad College of Engineering, Vadgaon (Bk), Pune in association with Spoken Tutorial Project, IIT Bombay during 27th April 2020 to 2nd May 2020.
- 3) Successfully completed Two Weeks Faculty Development Programme on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0" organized by Teaching learning centre, Ramanujan College, University of Delhi and sponsored by Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from May 18 - June 03, 2020.
- 4) Successfully completed a 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" organized by Teaching learning centre, Ramanujan College, University of Delhi and sponsored by Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from June 04 - July 01, 2020.
- 5) Successfully completed Two Weeks Faculty Development Programme on "Quantitative Methods for Data Analysis" organized by teaching learning centre, Ramanujan College, University of Delhi and sponsored by Ministry of Human Resource Development Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from August 12 - August 25, 2020.
- 6) Successfully completed Two Weeks Interdisciplinary and Multilingual Refresher Course/FDP on “Research Methodology” organized by Ramanujan College, Delhi, sponsored by MHRD PMMMNMNTT during 23 October - 06 November 2021.
- 7) Successfully completed Two Weeks Refresher Course in “STATISTICS” organized by Ramanujan College, Delhi, sponsored by MHRD PMMMNMNTT during 30 March - 13 April 2023.

LIFE MEMBERSHIP OF PROFESSION BODIES:

| Sr. No. | Name of Professional Body |
|----------------|---|
| 1 | Life membership of Indian Society for Probability and Statistics (ISPS) |