



# St Thomas College, Kozhencherry

Established in 1953 | Reaccredited by NAAC with Grade A | ISO 9001:2015 Certified | ISO 21001:2018 Certified

Affiliated to Mahatma Gandhi University, Kottayam

[www.stthomascollege.info](http://www.stthomascollege.info)

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## Faculty Profile

### Ms Ligi George

Associate Professor

Department of Statistics

Mobile No. +91 9447470816

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### Personal Details

Date of Birth	28.08.1971
Nationality	Indian
Marital Status	Married
Permanent Address	Chennankara House, Elenjimal P.O, Chengannur, 689 511, Kerala, India.

### Higher Education

1994 – 1995	<b>M.Phil Statistics</b> , University College of Science, Osmania University, Hyderabad.
1991 – 1993	<b>M.Sc Statistics</b> , University College of Science, Osmania University, Hyderabad.
1988 – 1991	<b>B.Sc Mathematics, Physics, Computer Science</b> , St. Francis College, Hyderabad, An Autonomous College affiliated to Osmania University, A.P.

### Professional Position

01 July 2012 to present	<b>Associate Professor, Department of Statistics, St Thomas College, Kozhencherry</b>
01 July 1999 to 30 June 2012	<b>Assistant Professor, Department of Statistics, St Thomas College, Kozhencherry</b>

### Teaching Experience

1999 – 2023	<b>Undergraduate students</b>
	<b>Postgraduate students</b>

### Courses Taught

M.Sc Statistics with Data Science	<b>Theory of Probability Distributions</b>
	<b>Stochastic Processes</b>

## Courses Taught (continued)

	■ Design and Analysis of Experiments
	■ Analysis of Categorical Data
M.A Economics	■ Mathematical Methods for Economic Analysis
	■ Statistical Methods for Economic Analysis
B.Sc Mathematics	■ Descriptive Statistics
	■ Probability Theory
	■ Probability Distributions
	■ Statistical Inference
B.A Economics	■ Quantitative Techniques
	■ Quantitative Methods

## Professional Service Rendered

- Head of the Department (AY 2016-17 to till date).
- Coordinator, Counselling and Orientation Cell (AY 2017-18 to AY 2021-22).
- NAAC Coordinator of the Department of Mathematics and Statistics (AY 2006-07).
- Member, UGC pay revision committee.
- Convenor, Planning Board(Block grants – UGC).
- Coordinator, PG Internal marks - Internal marks submission to the University is being done on behalf of the Principal.
- Member, Tutorial and Mentoring Cell.
- Member, Health and Wellness Club.
- Treasurer, Women's Cell (AY 2002-03 to AY 2004-05).
- Chief Examiner, M.Sc and B.Sc. Degree Examinations held under Mahatma Gandhi University, Kottayam.
- Additional Examiner, M.Sc and B.Sc. Degree Examinations held under Mahatma Gandhi University, Kottayam.

## Other Important Responsibilities/Positions Held

- Participated in the syllabus revision workshop for PG CSS Mathematics Programme (Elective Course Probability Theory).
- Participated in the Question Bank Upgradation Initiative of Mahatma Gandhi University, Kottayam and Contributed to the Question Bank of 1st Semester PG CSS Statistics with Data Science Core Course THEORY OF PROBABILITY DISTRIBUTIONS (During 2020-2021).
- Participated in the Question Bank Upgradation Initiative of Mahatma Gandhi University, Kottayam and Contributed to the Question Bank of 3rd Semester PG CSS Statistics with Data Science Core Course STATISTICAL COMPUTING 3 USING R AND PYTHON (During 2021-2022).
- Participated in the Question Bank Upgradation Initiative of Mahatma Gandhi University, Kottayam and Contributed to the Question Bank of 3rd Semester PG CSS Statistics with Data Science Elective Course DATA VISUALIZATION (During 2021-2022).

## Professional Membership and Activities

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- Member, Kerala Statistical Association.

## Awards and Achievements

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- February 1998      Qualified State Level Eligibility Test, Andhra Pradesh College Service Commission, accredited by U.G.C.
- June 1993      First Rank, M.Sc Statistics under Osmania University, Hyderabad.

## Areas of Specialization and Interest

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- Distribution Theory
- Statistical Inference

## Research Publications

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- Log-Esscher Transformed Laplace Distribution and Its Applications.** Journal of Probability and Statistical Sciences 14(1), 29-44, February, 2016.

## Paper Presentations

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- A class of Asymmetric Log-Laplace Distribution** International Conference on Statistics and Information Analytics (ICSIA 2012) organized by the Post Graduate and Research Department of Statistics, Loyola College, Chennai during August 23-25, 2012.
- Log-Esscher Transformed Laplace Distribution and Its Applications** National Seminar on Statistical Theory and Applications and The Annual Conference of the Kerala Statistical Association (KSA) organized by the Department of Statistics and Biostatistics, St. Thomas College, Pala, sponsored by the Department of Science and Technology, New Delhi, during 15-16 March, 2013.
- Location Scale Family of Log-Esscher Transformed Laplace Distribution** UGC Sponsored National Seminar on Advances in Statistical Theory and Computational Applications organized by the Department of Statistics, Newman College, Thodupuzha, in association with Kerala Statistical Association conducted on 29-30th August, 2013.
- Properties, Characterisation and Parameter Estimation of Log-Esscher Transformed Laplace Distributions** UGC sponsored National Seminar on "Recent Advances in Statistical Theory and Computational Techniques" held at Catholicate College, Pathanamthitta, Kerala on 6th, 7th February, 2015.

## Minor Research Project

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- A minor research project **Log-Laplace distributions as a model for Log-returns** was done during the years 2007-09 through U.G.C funding (MRP(S)-693/2007 (X Plan)/KLM GO 22/ UGC-SWRO, dated : Feb 2007).

## Project Guidance

M.Sc Statistics with Data Science	<ul style="list-style-type: none"> <li>■ <b>Aksa Saji</b>, <i>Application of ARIMA Modelling in Forecasting Thyroid Cancer Incidence</i> (2020-22 Batch).</li> <li>■ <b>G Gopika</b>, <i>Prediction of Thyroid Cancer Incidence: Bootstrapped Poisson Regression Analysis</i> (2020-22 Batch).</li> <li>■ <b>Gadha Manoj</b>, <i>Family History of Cancer and Lung Cancer Risk Prediction: K-Nearest Neighbours (KNN) Model Vs Logistic Regression Model</i> (2020-22 Batch).</li> <li>■ <b>Jeese P Abraham</b>, <i>Lung Cancer Risk Prediction: Support Vector Machine Vs Logistic Regression</i> (2020-22 Batch).</li> </ul>
M.Sc Mathematics	<ul style="list-style-type: none"> <li>■ <b>Blessy Babu</b>, <i>Stochastic Processes</i> (2014-16 Batch)</li> <li>■ <b>Mathews T Ozhathil</b>, <i>Sampling Techniques</i> (2014-16 Batch)</li> <li>■ <b>Sheena John</b>, <i>Information Theory</i> (2012-14 Batch)</li> <li>■ <b>Mayadevi P</b>, <i>Queuing Theory</i> (2011-13 Batch)</li> <li>■ <b>Manju Krishnan</b>, <i>Basic Concepts of Markov Processes</i> (2009-11 Batch)</li> <li>■ <b>Vidhya J Kurup</b>, <i>Inventory Models</i> (2009-11 Batch)</li> <li>■ <b>Anju J Prakash</b>, <i>Simulation</i> (2008-10 Batch)</li> <li>■ <b>Athira S</b>, <i>Information Theory</i> (2008-10 Batch)</li> <li>■ <b>Rizpah Thomas</b>, <i>Non-Linear Programming</i> (2005-07 Batch)</li> <li>■ <b>Vinitha B Nair</b>, <i>Reliability Theory</i> (2005-07 Batch)</li> <li>■ <b>Remya T.O</b>, <i>Network Techniques for Project Management</i> (2004-06 Batch)</li> <li>■ <b>Uma Sreekumar</b>, <i>Statistical Quality Control</i> (2003-05 Batch)</li> <li>■ <b>Dhanya Mohan</b>, <i>Time Series Analysis</i> (2003-05 Batch)</li> </ul>

## Faculty Development Programmes Attended

10 November 2020	■ FDP webinar on “Transactional Analysis and Mindfulness in Reflective Teaching”, organised by IQAC, St. Thomas College Kozhencherry and KSHEC.
4 November 2020	■ FDP Webinar “Mapping of Outcomes: Programme Outcomes, Course Outcomes and Learning Outcomes” organised by IQAC, St. Thomas College Kozhencherry and KSHEC.
11 September - 03 October 2006	■ Refresher Course in Biostatistics, UGC ASC, University of Kerala.
27 July - 17 August 2002	■ Refresher Course in Statistics, UGC ASC, University of Kerala.
30 May - 26 June 2001	■ Orientation Course, UGC ASC, University of Kerala.

## Recent Seminars/ Conferences/ Workshops Attended

27 October 2020	■ Participated in the webinar “Discovering the Emotionally Intelligent Teacher Within You : The Journey towards Emotopia.
21 October 2020	■ Participated in the webinar on “Statistics in the Current Scenario” organized by the Dept. of Statistics in association with The Kerala Statistical Association.

## Recent Seminars/ Conferences/ Workshops Attended (continued)

23-25 September 2020	Participated in the three days national level online FDP Workshop on Data Visualization in R organized by Department of Mathematics and Statistics, MES College, Marampally.
27 July 2020	Participated in the Webinar on Understanding and Combating Sexual Harassment organized by Centre for Womens Studies (CWS) and Internal Quality Assurance Cell, St.Thomas College, Kozhencherry.
22 July 2020	Participated in the Webinar on 'When COVID Infects the Mind' organized by the Internal Quality Assurance Cell, St.Thomas College, Kozhencherry.
5 June 2020	Participated in the Webinar on "The Art of Co-existence : 'Man in the realm of nature'" organized by the Go Green Santhome Club, St.Thomas College, Kozhencherry.
8 November 2016	Participated in a seminar on "Academic and Legislative Perspectives in Goods and Services Tax" organized by the PG Department of Commerce and Research Centre, St. Thomas College, Kozhencherry and Gulati Institute of Finance and Taxation (GIFT), Thiruvananthapuram.
6-7 February 2015	Presented a paper entitled "Properties, Characterisation and Parameter Estimation of Log-Esscher Transformed Laplace Distributions " in the UGC sponsored National Seminar on "Recent Advances in Statistical Theory and Computational Techniques" held at Catholicate College, Pathanamthitta, Kerala.
3-5 January 2014	Attended a workshop on Meta-Analysis sponsored by the Department of Science and Technology, New Delhi and organized by the Department of Statistics and Biostatistics, St. Thomas College, Palai.
15-16 November 2013	Participated in a workshop on Number Theory and Cryptography – Department of Mathematics, St. Thomas College, Kozhencherry.
29-30 August 2013	Participated and presented a paper titled "Location Scale Family of Log-Esscher Transformed Laplace Distribution " in the UGC Sponsored National Seminar on Advances in Statistical Theory and Computational Applications organized by the Department of Statistics, Newman College, Thodupuzha, in association with Kerala Statistical Association.
15-16 March 2013	Participated and gave a contributory talk on "Log-Esscher Transformed Laplace Distribution and Its Applications" in the National Seminar on Statistical Theory and Applications and The Annual Conference of the Kerala Statistical Association (KSA) organized by the Department of Statistics and Biostatistics, St. Thomas College, Pala, sponsored by the Department of Science and Technology, New Delhi.
23-25 August 2012	Participated and presented a paper titled "A class of Asymmetric Log-Laplace Distribution ", in the International Conference on Statistics and Information Analytics (ICSIA 2012) organized by the Post Graduate and Research Department of Statistics, Loyola College, Chennai.
17-18 February 2012	Attended a UGC Sponsored National Seminar on "Recent Advances in Computational Statistics- Theory and Methods" (RACSTAM-2012) organized by the Department of Statistics, Bharathidasan University.
19-20 September 2011	Attended a UGC Sponsored National Seminar on "Quality Enhancement in Teaching, Learning and Evaluation: Recent Trends and Challenges" organized by Internal Quality Assurance Cell (IQAC), St. Thomas College, Palai, Kerala.
11-13 August 2011	Attended a UGC Sponsored National Seminar on "Recent Trends in Discrete Mathematics and Applications" and Annual Conference of Kerala Mathematical Association organized by the Department of Mathematics, St. Thomas College, Kozhencherry, Pathanamthitta.

## Recent Seminars/ Conferences/ Workshops Attended (continued)

- Attended a Three-Day Lecture Workshop on Statistical Applications in Industry, Business, Agriculture and Ecology sponsored by the Indian Academy of Sciences, Banagalore, Indian National Science Academy, New Delhi, The National Academy of Sciences India, Allahabad organized by the Department of Statistics, St. Thomas College, Palai, Kerala.
- 18-20 May 2007 Attended an International Conference on Special Functions and Applications, 2007 and 8th Annual Conference of the Society for Special Functions and Applications (India), sponsored by the Department of Science and Technology, Government of India, New Delhi, co-sponsored by M.G.University, Kottayam, Kerala held at St. Thomas College, Palai.

## Recent Seminar/Conferences/Workshops Organized

- Organised a Seminar on “Research Motivation and Methodology” and Inauguration of Research Forum, St. Thomas College, Kozhencherry on 03rd February 2017.
- Conducted a one-day workshop on “Applications of Software in Data Analysis”, on 30th October 2018.
- A two day regional workshop on “STATISTICAL TOOLS AND DATA ANALYSIS” was conducted by the Department from 28th January 2020 to 29th January 2020, in association with the IQAC, PTA and College Management, for PG(Final) students of Economics, Commerce, Botany and Zoology.
- Webinar on CAREER OPPORTUNITIES and APPLICATIONS OF STATISTICS conducted by the Department on 22nd February 2021, in collaboration with Department of Statistics, Sree Sankara College, Kaladi and Department of Statistics, B.C.M College, Kottayam.
- Webinar Series on STATISTICAL TOOLS AND SOFTWARES FOR DATA ANALYSIS was conducted by the Department on 12th June 2021, 19th June 2021, 3rd July 2021, 10th July 2021 and 14th August 2021.
- Webinar on CAREER PATHS IN DATA SCIENCE was conducted by the Department on 5th August 2021.
- Webinar on DATA VISUALIZATION IN PYTHON was conducted by the Department on 14th May 2022.
- Talk on BE AN ACHIEVER was conducted by the Department on 30th August 2022 in association with the farewell programme of the first batch of MSc Statistics with Data Science programme.
- Talk on TRENDS IN AI, ML, DATA SCIENCE AND DATA ANALYTICS was conducted by the Department on 07th November 2022.

## Skills

- Languages known
  - English, Malayalam, Hindi.
- Coding
  - R, MS Excel,  $\text{\LaTeX}$