Dr. Merin Jose

Visiting Faculty
School of Mathematics & Statistics
Mahatma Gandhi University
Kottayam, Kerala, India

M merinjmary@gmail.com

📞 +916238689309

📍 Kottayam, Kerala, India

Education

2023
Ph. D (Mathematics)
Mahatma Gandhi University

2018
M. Sc Mathematics (Rank 2)
Cochin University of Science & Technology

2016
B. Sc Mathematics (Rank 2)
Mahatma Gandhi University

Achievements

- Ph. D - 2023 (Thesis - **A Study on LM-G-Filter Spaces and Related Topics**)

- **CSIR - JRF** -2018 (67 Rank in Mathematical Science)

- **GATE** - 2018 (Mathematical Science)

- First place in **Kerala State level Dr. U.S. Nair Quiz** conducted by Kerala Statistical Association (2014)

- First place in **All Kerala Inter Collegiate Quiz** competition conducted by Department of Statistics, CUSAT (2015)

- **INSPIRE-Fellowship** by Department of Science & Technology, India (2013 - 2018)

Research Interests

- *Fuzzy Topology*
- *Fuzzy Filters*
- *Fuzzy Logic*
- *Category Theory*

Publications - 7 (International)
Presentations - 2 (International)

Publications

- Generalization of LM-filters: sum, subspace, product, quotient and stratification, **Soft Computing** 27 (2023), 809-819. (Web of Science-SCIE and Scopus) https://link.springer.com/article/10.1007/s00500-022-07610-x

- Catalyzed LM-G-filter spaces, **Journal of Intelligent and Fuzzy Systems**, 43:1 (2022), 1259-1269. (Web of Science-SCIE and Scopus) https://doi.org/10.3233/JIFS-212923

- On the categories of weak and strong LM -G-filter spaces, **Fuzzy Information and Engineering** 14:2 (2022), 228-242. (Web of Science-ESCI and Scopus) https://doi.org/10.1080/16168658.2022.2057065

- On the images of LM-G-filters and LM-G-filterbases, **South East Asian Journal of Mathematics and Mathematical Sciences** 18: 2 (2022), 301-318. (Scopus) https://doi.org/10.56827/SEAJMMS.2022.1802.26

- On the categorical connections of L-G-filter spaces and a Galois correspondence with L-fuzzy pre-proximity spaces, **New Mathematics and Natural Computation**, 19: 1 (2023), 33 - 49. (Web of Science-ESCI and Scopus) https://doi.org/10.1142/S1793005722500478 6.

- Alexandrov L-quasi-G-filters and Alexandrov L fuzzy pre-uniformities, **Journal of Intelligent and Fuzzy Systems**, 44: 4 (2023), 6035- 6046. (Web of Science-SCIE and Scopus) https://doi.org/10.3233/JIFS-223832

- On the categorical relationships among L-G-filters, L-fuzzy grills, L-closure operators and L-fuzzy cotopologies, **New Mathematics and Natural Computation**, (Accepted). (Web of Science-ESCI and Scopus).

Presentations

- *'On LM-fuzzy topological spaces'* in **International Conference on Recent Advances in Mathematical Science and Its Applications** organized by Department of Mathematics and Tamilnadu Common Wealth Center, Mother Teresa Women's University, Kodaikanal held on 26-08-2021 & 27-08-2021.

- *'On the Relationships between L-G-Filters and L-Fuzzy Pre-proximities'* in **International Conference on Recent Developments in Pure and Applied Mathematics** organized by PG and Research Department of Mathematics, St. Xaviers College (Autonomous), Palayamkottai, held on 19 -21 July 2022