

## CURRICULUM VITAE

**Name** : **Dr. J. AROCKIA JEYAKUMAR**

**Gender** : Male

**Nationality** : Indian

**Office Address** : Assistant Professor,  
Department of Mathematics,  
St Joseph's College (Autonomous),  
Tiruchirappalli – 620 002.  
Email: [aro.jeyakumar@gmail.com](mailto:aro.jeyakumar@gmail.com)  
Phone: 0431 - 4226398

**Residential Address** : D-204, Vasanth Vihar Apartments,  
I Cross Extension West,  
Thillai Nagar,  
Tiruchirappalli – 620 018.  
Mobile: +91 97886 50400

### Educational Qualification

- **Ph. D.**, Mathematics, St Joseph's College (Autonomous), Tiruchirappalli, August 2020
- **M. Phil.**, Mathematics, St Joseph's College (Autonomous), Tiruchirappalli, August 2006 obtained 92.7% with distinction.
- **M. Sc.**, Mathematics, St Joseph's College (Autonomous), Tiruchirappalli, April 2005 obtained 86.79% with First class.
- **B. Sc.**, Mathematics, St Joseph's College (Autonomous), Tiruchirappalli, April 2003 obtained 74.2% with First class.

### Teaching Experience

- Assistant Professor (Regular staff), Department of Mathematics, St. Joseph's college, Tiruchirappalli, from June 2013 to till date.
- Assistant Professor (Management staff), Department of Mathematics, St. Joseph's college, Tiruchirappalli, from June 2006 to May 2013.

### Area of Research

- **M. Phil.**, : **A Study on Chaos and Lyapunov Exponents**
- **Ph. D.** : **A Study on Probabilistic Fuzzy Finite Automata**

### **Achievements/Awards/Recognition**

- Qualified **State Eligibility Test (SET)** conducted by Bharathiar University, Coimbatore in Oct 2012.
- Scored centum in Mathematics at Higher Secondary Level Public examination in Apr 2000.

### **Research Publications**

- J. Arockia Jeyakumar and Dr. T. Rajaretnam, Some Properties of Fuzzy Probabilistic Automata, Journal of Computer and Mathematical Sciences, e-ISSN: 2319-8133, p-ISSN: 0976-5727, Vol.9, Issue 6, Jun. 2018, pp. 609-618.
- J. Arockia Jeyakumar and Dr. T. Rajaretnam, Homomorphic images and Shuffle product on probabilistic automata, International Journal of Artificial Intelligence and Soft Computing, e-ISSN: 1755-4969, p-ISSN: 1755-4950, Vol. 7, No.1, Jan. 2019 pp. 3-12.
- J. Arockia Jeyakumar and Dr. T. Rajaretnam, Pumping lemma on probabilistic fuzzy finite automata and some product operations on probabilistic fuzzy finite automata, Journal of Applied Science and Computations, e-ISSN: 1076-5131, Vol.VI, Issue VI, Jun. 2019, pp. 3202-3212.
- J. Arockia Jeyakumar and Dr. T. Rajaretnam, Existence of an equivalent deterministic probabilistic fuzzy finite automaton for a given probabilistic fuzzy finite automaton, Journal of Information and Computational Science, e-ISSN: 1548-7741, Vol.9 Issue 8, Aug. 2019, pp. 522-533.
- J. Arockia Jeyakumar and Dr. T. Rajaretnam, Direct product and Cascade product of probabilistic fuzzy finite automata, International Journal of Management Technology and Engineering, e-ISSN: 2249-7455, Vol. IX Issue VIII, Aug. 2019, pp.431-442.

### **Seminars / Workshops attended**

- Attended the National conference on Mathematical sciences and applications organised by Department of mathematics, St. Joseph's College, Tiruchirappalli on 04<sup>th</sup> and 05<sup>th</sup> March 2014.
- Attended the LaTeX Workshop organised by the Department of Mathematics, St. Joseph's College, Tiruchirappalli on 13<sup>th</sup> August, 2013.
- Attended the International Conference on Discrete Mathematics (ICDM2019), Department of Mathematics, St. Joseph's College, and Tiruchirappalli during 07<sup>th</sup> to 09<sup>th</sup> 2019, sponsored by NBHM, CSIR and SERB.
- Attended the XXXI Academic Conference "Towards Scientific and Equitable Education for All" conducted by AIFUCTO on during 23<sup>rd</sup> to 25<sup>th</sup> November 2018 at Kanyakumari.
- Attended and presented a paper "Homomorphic Images and Shuffle Product on Probabilistic Automata" in International Conference on Emerging Trends in Mathematical

Sciences and Technology organised by Research Centre & PG Department of Mathematics, Jayaraj Annapackiam College for Women, Periyakulam on 20<sup>th</sup> & 21<sup>st</sup> December, 2018.

### **Computer Skills**

- LaTeX
- Matlab

### **DECLARATION**

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

AROCKIA JEYAKUMAR.J