### Resume

J. Kavitha S3, PKS Sai Brindavan Apartment, Balachander Avenue 1<sup>st</sup> street, Brindavan Nagar Extn., Madambakkam Chennai- 600126 Mobile: 9003619026, 8110967874 Email: kavi.asm08@gmail.com



## **Objectives**

Looking forward to build my career by utilizing all opportunities to implement my skills and knowledge in order to pursue a long term relationship with the organization. Also to obtain a college professor position that will enable the use of exceptional interpersonal, communication, computer, technical and teaching skills.

### **Educational Qualification**

Doctor of Philosophy in Mathematics Madurai Kamaraj University, Madurai, TamilNadu	2018	
State Eligibility Test(SET Exam) in		
Mathematical Sciences	2012	
Master of Philosophy in Mathematics 77% Jamal Mohamed College, Trichy	2011	
<b>Bachelor of Education in Mathematics 75%</b> J.J.College of Education, Trichy.	2010	
Master of Science in Mathematics 73% Bishop Heber College, Trichy	2009	
Bachelor of Science in Mathematics 76% Jamal Mohamed College, Trichy.	2007	

#### Awards

- 1. Basic Scientific Research Fellow, UGC, New Delhi
- 2. Senior Research Fellow, UGC, New Delhi

#### **Area of Interest**

General Topology, Nano Topology, Real Analysis

#### **Thesis Title**

Studies on a new sort of weakly open sets in Intuitionistic Topology and Nano Topology.

**Research Experience** 

4 years and 6 months

Work Experience

# 6 months - Assistant Professor in Chellamal College, Guindy

01.07.2022 to 30.4.2023 worked as an Assistant Professor in M.O.P.Vaishnav College for Women, Nungambakkam

#### **Research Supervisor**

Dr. M. Lellis Thivagar Chairperson and Professor Member Syndicate School of Mathematics Madurai Kamaraj University Madurai, Tamilnadu, India

**Collaborative Research Work** 

Dr. Saeid Jafari Professor Department of Mathematics College of Vesjaelland Denmark Brief Details of the Research Work

The purpose of this thesis is to extend and examine binary supra topology, intuitionistic topology, nano topological notions and study its characterizations in detail. We have discussed binary supra open and binary supra continuous functions. Further we have introduced and developed intuitionistic door space. Also we have introduced nano relative topology, nano resolvable spaces, nano ideal resolvable spaces, nano F\*spaces. This gives an interesting relationship in nano topology. We have made an attempt in hypergroup theory in nano topology. We have defined nano topology through invertible subhypergroup. Consequently, by applying the concept of invertible subhypergroup nano topology in the metal copper we find its characteristic. Finally, using nano topology in a decision table on global warming we conclude that high temperature gives high solar energy and low temperature gives low solar energy.

### **Publications in International Refereed journal and Conferences**

- 1. M. Lellis Thivagar, Saeid Jafari, J. Kavitha "On Intuitionistic Door space via Ideal topological space, Poincare J. Anal. Appl., Vol.8(1(1)), 2021, 41-50. **H INDEX 2, SCOPUS.**
- M. Lellis Thivagar and J. Kavitha, "On Binary structure of Supra Topological space" in Boletim da Sociedade Paranaense de Mathematica, Vol 35, 3(2017), 25-37. SJR2022, BRAZIL. SCOPUS IF:0.3.
- M. Lellis Thivagar and J. Kavitha," On Nano Resolvable space" in Missouri Journal of Mathematical Sciences, Vol 29, 1(2017), 80-91.
  SJR2022, H INDEX 10, SCOPUS I.F: 0.297, USA., Project Euclid.
- M. Lellis Thivagar, J. Kavitha "Invertible subhypergroup nano topology induced by chemical reaction", South East Asian J. of Math. & Math. Sci. Vol. 14, No. 3 (2018), 21-30.SCOPUS.
- **5.** M. Lellis Thivagar and J. Kavitha," Decision making with global warming via Nano Topology", Mathematical Sciences International Research journal, Vol 3, No 2, (2014), 822-826.
- **6.** M. Lellis Thivagar and J. Kavitha "Irresoluteness via Binary supra Topological spaces" in Journal of Ultra Scientist in Physical Sciences, Vol 29, 1, (2017), 40-45.
- M. Lellis Thivagar, J. Kavitha, Minu Sarathy "Some new classes of Nano Regular Ideal Sets" Mathematical Sciences International Research journal, Vol 7, No 1, (2018).

- 8. M. Lellis Thivagar, J. Kavitha, D. Evangeline Christina Lily on "Minimal and Maximal open sets via Nano topology" Advances in Mathematics Scientific Journal, North Macedonia 10 (2021), 2675–2686.
- 9. J.Kavitha, Presented a paper on "On Intuitionistic Submaximality and Extremally disconnected space" Analytic Hierarchy process and Artificial Intelligence, in Kandasami Kandar Collge, Vellore, November, 2022.
- 10.M. Lellis Thivagar, J. Kavitha, "Nano Topology via Hypergroup", communicated.

# **M.Phil DISSERTATION TITLE**

### **Strongly Regular Graphs**

### M.Sc PROJECT TITLE

**Fuzzy Correlation and Regression revisited in Statistical background** 

**Personality Skills** 

- Excellent Presentation, motivational and leadership skills.
- Strong Analytical, logical and mathematical skills.
- Ability to handle the students.
- Ability to provide quality knowledge.

**Personal Biodata** 

Date of Birth Citizenship Marital Status Languages

08.01.1987 Indian Married English, Tamil

#### DECLARATION

I hereby declare that the above mentioned information are true to the best of my knowledge.

J.Kavitha

Signature