

**SHARON RUBINI. P. K**  
**Assistant Professor**  
**Department of Mathematics**  
**Date of Joining: 16-09-2020**  
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### **QUALIFICATION HIGHLIGHTS:**

#### **EDUCATIONAL:**

- Ph.D Mathematics ,Fractal Geometry, Thiagarajar college of Engineering, Madurai,(PURSUING)
- M.Phil Mathematics, Graph Theory ,PRIST University, 2008-2009
- M.Sc Mathematic, CSI College of Art and Science, Madurai,2006-2008
- (M.Sc (spl) Mathematics), American College, Madurai, 2004-2006
- B.Sc (spl) Mathematics, Lady Doak College, Madurai,2000-2003

#### **TECHNICAL :**

- ADCA,
- LANGUAGES KNOWN: C, C++, JAVA, HTML ORACLE
- ISO auditor
- Beautician
- Baking technology
- Womens' studies and HR- its duties.,.

#### **PRESENT POSITION:**

Assistant Professor in the Department of Mathematics (SF) since 16.09.2020

#### **AREA OF SPECIALISATION**

- Fractal geometry
- Fuzzy mathematics
- Operations research
- Statistics
- Numerical methods
- PDE
- Analytical geometry
- Linear algebra
- Topology
- Complex analysis

**RESEARCH GUIDESHIP ( 2012-2017)****M.Phil - St.PETERS' UNIVERSITY**  
19 Scholars Completed**PROFESSIONAL EXPERIENCE: 13.1 YEARS**

S.NO	INSTITUTION NAME	DESIGNATION	SUBJECTS HANDLED	BRANCH	EXPERIENCE IN YEARS
1	REV.JACOB MEMORIAL ARTS AND SCIENCE COLLEGE, AMBILLIKAI,  DINDIGUL (DT) JUNE 2008-MAR 2009	LECTURER	1. REAL ANALYSIS, COMPLEX ANALYSIS  2. OR, ALLIED MATHS  3. BUSINESS STATISTICS	1. BSC  2. BBA  3. M.COM	0.10
2.	ST.PETERS UNIVERSITY,  AVADI, CHENNAI  APRIL 2009- AUG 2011	LECTURER	1. ENGINEERING MATHS I, II, III, PQT, PRP, SNM, NM,  DISCRETE MATHS, 2. MATHEMATICAL PHYSICS  3. APPLIED PROB & STAT  4. APPLIED MATHEMATICS	1. B.E/B.TECH  2. M.SC(PHY)  3. ME  4. M.PHIL	2.4
3.	ST.PETERS COLLEGE OF ENGINEERING AND TECHNOLOGY,  AVADI, CHENNAI  AUG 2011-NOV 2017	ASST.PROF	1. ENGINEERING MATHS I, II, III, PQT, PRP, SNM, NM,  DISCRETE MATHS,  2. APPLIED PROB & STAT, APPLIED MATHEMATICS FORELECTRONIC ENGINEERS	1. B.E/B.TECH  2. ME	6.3
4.	CSI. COLLEGE OF EDUCATION, MADURAI  JUNE 2018-MAY 2019	VISITING PROF	PEDAGOGY OF MATHEMATICS	I B.ED MATHS	<b>1</b>
5.	THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI.  JAN 2018 – 15 <sup>TH</sup> SEP 2020	TEACHING ASSISTANT	1. DISCRETE MATHEMATICS  2. APPLIED MATHEMATICS  3. BOUNDARY VALUED PROBLEMS	1. BE. CSE  2. ME CIVIL  3. ME MECH	<b>2.8</b>

## **PUBLICATIONS**

### **1. JOURNAL:**

Estimation of Fractal dimension in the Analysis of Single Abnormal Gene Structure, Sharon Rubini .P.K, S. JeyaBharathi,B.Latha, A.Seethalakshmy “TAGA JOURNAL OF GRAPHIC TECHNOLOGY”, V.14.70, pages 775-781, February 2018.

### **2. BOOK:**

Engineering Mathematics –II, Dr.S.Sivasankaran, Sharon Rubini.P.K, Anna University Regulation 2018 syllabus, ISBN- 978-93-87483-39-2. .Jan 2018.

### **3. CONFERENCE PROCEEDINGS:**

Augmented Assay of Grid to Triangular Fractal Dimension On  $\beta$ -Thalassemia ,SJeyaBharathi, Sharon Rubini P K, V Prabhakaran, *International Conference on Mathematical Analysis and Computing (ICMAC-2019)* held during December 23-24, 2019 at Department of Mathematics, SSN College of Engineering, Kalavakkam, Chennai.

## **AWARDS AND HONOURS**

- **Excellent Academician Award 2018**
- **Emerging Researcher Award 2019**
- **Research and Innovation Award 2020**

## **PROJECTS:**

TITLE	CATEGORY	FUNDED BY	SANCTIONED AMOUNT	STATUS
A Study on SingleAbnormal Gene Structure by Fractal Patterns	Women Scientist WOS A PI	DST	Rs. 21,22,092	Ongoing (Nov 2019- Nov 2022)

## **OTHER ACHIEVEMENTS**

- Presented a paper on ‘**women’s stories and case studies**’ at an international conference Anglican urban network south Asia level.
- Selected as TOT (National level) from capacity building for woman managers held at Alagappa University (Residential workshop sponsored by UGC)
- Invited by Alagappa arts and science, Karaikudi as a research person to lecture on „ **Managing professional and personal role of woman**’
- Participated in national seminar on „**Emerging trends of Algebra**’ at TBAK college, Killaikarai.
- Presented papers ‘ **Technical challenges in cinematography**’ and „**Role of mathematics in globalization**” in an International conference at RJMC college, Ambilikkai.
- Invited as a chief guest for women’s day at Vailankanni Hr. Sec. School at Avadi, Chennai.
- Participated in workshop on „ **Research practices on topics in Mathematics**’ at Madras Christian college, Chennai.
- Participated in Bridge course program organized by Anna university.
- **Rendered and dedicated service to Shansi International study center, Oberlin.**

- Lecturer, Department of Mathematics in Rev. Jacob Memorial Christian College, Ambilikkai, during 2008-09 and brought forth centum results in MKU results Nov 2008 and was heading the department in the Even semester.
- Lecturer, Department of Mathematics in St.Peter's University during the year Ap 2009- Sep 2011 and brought forth more than 90% results in University Exams Dec 2009 and Ap 2010.
- Assistant Professor, Department of Mathematics at St.Peter's College of Engineering and Technology since Aug 2011 and brought forth centum results in Ap 2012, Ap 2014 and Dec 2015

**GUEST LECTURES:**

S.N	DATE	VENUE	TOPIC	LECTURE TO:	REMARK
1..	11/03/14	VAILANKANNI MAT ,HR. SCHOOL	PROFESSIONAL AND PERSONAL ROLE OF WOMEN	SCHOOL TEACHERS	INVITED AS CHIEF GUEST
2.	21/09/15	SRM UNIVERSITY, NOIDA	APPLICATION OFFRACTAL PATTERNS ANDCHOAS THEORY	M.SC, APPLIED MATHS STUDENTS	INNOVATION AND MOTIVATED FOR RESEARCH
3.	30/06/17	SPCET	MATH- HOW IS USED IN ENGINEERI NG	I YEAR BE/BTECH STUDENTS	ORIENTATION PROGRAM
4.	20/09/17	ST.PETERS UNIVERSITY	MATHS- QUEEN OF ALL SCIENCES AND TECHNOLOGY	I YEAR BE/BTECH, BSC, MSC PHY,CHEM	INSPIRATION TO LEARN MATHS.
5.	22/05/18	VENTURE INSTITUTE OF BIOTECHNOLGY AND BIOINFORMATICS RESEARCH	APPLYING STATISTIC ALTOOLS IN RESEARCH	BIOTECHNOLOGY ZOOLOGY STUDENTS	INVITED LECTURE
6.	26/07/21	CSI. COLLEGE OF EDUCATION,MADURAI	NEED OF DIFFERENT APPROACHES AND STRATEGIES FOR TEACHING	B.ED -MATHS	MOTIVATIONAL TALK

**Other Activities / Academic Credentials:**

- Organizing Secretary of Two Days International Virtual Workshop on “**InnovativeResources and IPR in Research**” held on 8<sup>th</sup> and 9<sup>th</sup> October 2021.