STANIYA RUTH SIMON

MATHEMATICS GRADUATE

SUMMARY

I have completed my MSc in Applied Mathematics with a strong interest in advancing research within the same field. My academic training has deepened my understanding of mathematical modeling and its applications to real-world problems. I seek to pursue doctoral studies in Applied Mathematics to contribute to impactful and innovative research.

PROJECTS

Analytical Study on Bipolar Neutrosophic Fuzzy Soft Sets (2025)
Conducted an in-depth analysis of Bipolar Neutrosophic Fuzzy Soft Sets with a focus on parameter reduction and its role in optimizing decision-making under uncertainty.

Graph Theory: Study of the Greedy Theorem (Bachelor's Project, 2023)
Explored the properties and applications of the Greedy Theorem in graph optimization problems, emphasizing algorithmic efficiency and combinatorial structures.

AWARDS

Research Paper Presentation – Presented paper at the *8th International RAMSA Conference 2025*.

Publication Recognition – One research paper under review in the *AAM Journal*.

PUBLICATIONS

Ruth, S., *An Analytical Approach to Bipolar Neutrosophic Fuzzy Soft Sets: Applications in Problem Solving*, RIEM Inquietud e Investigación, (Under Review, 2025).

Ruth, S., *Neutrosophic Fuzzy Soft Set: A Mathematical Framework for Uncertainty Representation in AI*, (Book Chapter, 2025).

CERTIFICATIONS

Certificate in Data Analyst Skill Path: Zero to Hero in Excel, SQL, and Python (2025) – Comprehensive training in data analysis, database management, and programming for analytical problem-solving.

Mathematical Programming using MS Word, Excel, and PowerPoint – Certificate in Statistical Applications, 2023

SKILLS

- Applied and Theoretical Mathematics, Mathematical & Computational Modeling, Numerical Methods & Optimization, Data Analysis & Statistical Reasoning, Research Design & Academic Writing, MATLAB | Python | LaTeX, Problem Solving & Logical Thinking, Independent & Collaborative Research

CONTACT

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- Kerala, India

EDUCATION

Secondary School (SSLC) in General Education- SCIENCE | S C HIGHER SECONDARY SCHOOL
Pathanamthitta, Kerala, India, 2018
Grade – 97%

Higher Secondary in Science | Devaswom Board Higher Secondary School
Pathanamthitta, Kerala, India, 2020
Grade – 82%

Bachelor of Science (B.Sc.) in Mathematics | Mahatma Gandhi University
Kottayam, Kerala, India, 2020 – 2023
Grade – 6.97 / 10 ($\approx$ 2.8 / 4.0 GPA)

Master of Science (M.Sc.) in Applied Mathematics | Amity University
Noida, Uttar Pradesh , India, 2023 – 2025
Grade – 7.61 / 10 ($\approx$ 3.1 / 4.0 GPA)

VOLUNTEERING

National Service Scheme (NSS) Volunteer (2018–2023)
Actively served as an NSS volunteer for five years from higher secondary to undergraduate level, participating in community development, environmental awareness, and educational outreach programs.

NSS Leader (Bachelor's Level)
Led and coordinated student volunteer groups for social and campus initiatives, organizing events promoting health, literacy, and civic responsibility.

Junior Red Cross (JRC) Volunteer
Participated in humanitarian and health-related programs focused on social welfare, teamwork, and youth leadership.