

KEERTHANA M RENJITH

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EDUCATION

• Bachelor of Physics (Honors)

Sacred Heart College (Autonomous), Thevara, Ernakulam, Kerala, India
Affiliated to Mahatma Gandhi University (MGU), Kottayam, Kerala, India
CGPA (3 semesters): **9.14/10**

2024 – Present

• Higher Secondary Education (Science – Biology)

Sacred Heart Higher Secondary School, Thevara, Ernakulam, Kerala, India
Percentage: **99.83%**

2022 – 2024

• Secondary Education

St. Jude's English Medium High School, Karanakodam, Ernakulam, Kerala, India
Grade: **Full A+**

2021 – 2022

Medium of Instruction: English (all formal education)

RESEARCH EXPERIENCE

Project Student

2025 – Present

Department of Condensed Matter Physics and Materials Science
Tata Institute of Fundamental Research (TIFR), Mumbai, India
Mentor: Prof. Arnab Bhattacharya

- Experimental study of (001)muscovite mica as a flexible substrate for semiconductor and van der Waals epitaxial growth.
- Raman spectroscopic investigation of strain-dependent vibrational properties.

ACADEMIC ACHIEVEMENTS AND HONORS

- National Initiative on Undergraduate Science (NIUS) – Physics — Homi Bhabha Centre for Science Education (HBCSE-TIFR), Mumbai (Selected Participant) 2025
- Among the Top 1% of higher secondary students in India 2024
- School Topper in Science during Higher Secondary Education 2022

SCHOLARSHIPS

- Innovation in Science Pursuit for Inspired Research(INSPIRE) — Department of Science and Technology, Government of India 2024–Present
- Medha Chhatravriti Yojana Scholarship — Monetary reward for being among the top 75 girls of Kerala State Education Board in secondary education 2022

SKILLS

- Confocal Raman Spectroscopy: hands-on operation and spectral analysis
- Powder XRD: peak identification and basic phase analysis
- Origin: curve fitting and Raman tensor analysis
- Python: NumPy, Matplotlib
- VESTA: crystal structure visualization
- LaTeX: academic writing

LEADERSHIP AND ACTIVITIES

- Secretary — Sacred Heart Physics Association for Recreation and Kaizen (SPARK) 2025 – Present
- Member — Indian Network of Physics Students (INPS), India 2025 – Present
- School Parliament Member — Sacred Heart Higher Secondary School 2022–2024