

KEERTHANA M RENJITH

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EDUCATION

- **Bachelor of Physics (Honors)**
Sacred Heart College (Autonomous), Thevara, Ernakulam, Kerala, India 2024 – Present
Affiliated to Mahatma Gandhi University (MGU), Kottayam, Kerala, India
CGPA (3 semesters): **9.14/10**
- **Higher Secondary Education (Science – Biology)**
Sacred Heart Higher Secondary School, Thevara, Ernakulam, Kerala, India 2022 – 2024
Percentage: **99.83%**
- **Secondary Education**
St. Jude's English Medium High School, Karanakodam, Ernakulam, Kerala, India 2021 – 2022
Grade: **Full A+**

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