

# Sharanya R Pillai

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📍 Kausthubham, Pathiyoor (W), Keerikad  
P.O, Alappuzha

📅 27th July 2000

🇮🇳 Indian

## Profile

An integrated msc student with hands on experience in scientific computing and python programming.

## Education

**Integrated MSc Physics with minor in Scientific Computing**, *Amrita Vishwa Vidyapeetham*  
Cgpa - 7.11

July 2018 – October 2023 | India

**12th CBSE**, *Sree Narayana Public School*  
Percentage - 70

2018 | Kayamkulam, India

**10th CBSE**, *Carmel Public School*  
Cgpa - 9.6

2016 | Thiruvananthapuram, India

## Skills

Communication skills and leadership qualities. Basic knowledge in machine learning and deep learning. Hands on experience on MATLAB and python programming

## Languages

- English, Hindi, Malayalam

## Interests

- Material science
- Experimental physics

## Projects

### TRANSITION METAL - DOPED TITANIUM CARBIDE MXenes FOR SUPERCAPACITOR APPLICATIONS

Investigates the influence of transition metal doping on the

electrochemical performance of  $Ti_3C_2Tx$  MXene as an electrode material for supercapacitor application.

#### TIME DEPENDENT DENSITY FUNCTIONAL THEORY OF BIMN MOLECULE

TDDFT calculations using the PBE0 functional is done on PM3 optimized BIMN molecule.

### Awards

**First Prize for Chemistry quiz conducted at Amrita Viswa Vidyapeetham, Amritapuri as part of Science Fest.** 2019

**Third Prize for English Essay Writing at Carmel Public School, Thiruvananthapuram.** 2013

### References

**Dr V. Sitaram**, *Assistant Professor*,  
Department of Physics, Amrita Vishwa Vidyapeetham, Amritapuri  
sitaramv@am.amrita.edu, 8129002586

### Workshops and Webinars

**Dye sensitised solar cell at Amrita Viswa Vidyapeetham, Vidyut Multifest** 2020 | Amritapuri, India

**IOT - Internet of Things at Amrita Viswa Vidyapeetham, Anokha Multifest** 2019 | Coimbatore, India

**ISIM 2021 - International Symposium on IoT and ML for Ecosystem Restoration and Multi - Hazard Resilience** 2021

### Community Outreach Activity

**School visit for seminar in SVHSS** 2019

**Volunteered for cleanup drive as part of 'Swachhatha Hi Seva'** 2018