

**GOPIKA P B**

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## EXPERIENCE

## Project Assistant

IISER Thiruvananthapuram

 October 2022 – December 2022

Research Associate

**Acadecraft Private Limited**

📅 July 2022 – September 2022

Subject Matter Expert

**Vaidik Eduservices Pvt. Ltd**

 August 2020 – May 2021

## PUBLICATIONS

- Gopika P.B., Peter Bastian, and Nagaiah Chamakuri. "Novel bidomain partitioned strategies for the simulation of ventricular fibrillation dynamics". (*submitted*)
- Gopika P. B., Nishant Ranwan, and Nagaiah Chamakuri. "Reliable A Posteriori Error Estimator for a Multi-scale Cancer Invasion Model". (*under review ,arXiv (link: doi.org/10.48550/ arXiv.2302.00217 ).* )
- Sobin Thomas, Gopika P. B., and Suresh Kumar Nadupuri. "Higher Order Accurate Numerical Solution of Nagumo Equation". In **AIP Conference Proceedings**. Vol. 2336. No. 1. AIP Publishing LLC, 2021.
- Sobin Thomas, Gopika P. B., and Suresh Kumar Nadupuri. "Higher order accurate compact schemes for time dependent linear and nonlinear convection-diffusion equations". In **AJMAA**, Vol. 20 (2023).

## TEACHING

- Tutorials for IDC 121 (Mathematical tools-II) at IISER-TVM
- Tutorials for MAT 111 (Introduction to proofs) at IISER-TVM
- $\LaTeX$  and Sagemath at Government College of Nedumangad
- Calculus at Government College of Nedumangad
- Vector calculus at Government College of Nedumangad

## CONFERENCES

LACAM 2024

**IISER Thiruvananthapuram, February 21 – 20, 2024**

ICAMM 2023

**IIT Indore, October 18 – 20, 2023**




IGCM 2023

IISc Bangalore, March 27 – 30, 2023

## EXTRA-CURRICULARS

- Evaluator for Vidyarthi Vigyan Manthan National Camp on May 20 and 21, 2023.
- Student organizer of LACAM-24, IISER Thiruvananthapuram
- Editorial Board member for Department Magazine, Dept. of Mathematics, Providence Women's College







## EDUCATION

- Ph.D  
**IISER Thiruvananthapuram**  
 January 2023 –Present
- M.Sc.Mathematics  
**NIT Calicut**  
 2020 CGPA 9.93/10
- B.Sc.Mathematics  
**Providence Women's College, University of Calicut**  
 2018 CGPA 5.66/6

## TECHNICAL SKILLS

- C++, DUNE
- MATLAB, Python
- $\text{\LaTeX}$

## ACHIEVEMENTS

-  PMRF in 2023
-  Qualified Joint CSIR-UGC JRF-June 2022 and December 2019
-  Qualified GATE-2020
-  Second prize in All Kerala Inter Collegiate Statistics Quiz Competition by Dept. of Statistics, CUSAT
-  Prize in honour of Prof. Rose Antony for proficiency in Mathematics by Providence Women's College
-  First prize in Prof. Padmaja Devi Memorial Intercollegiate quiz by Providence Women's College

## INTERNSHIP

- Summer Fellowship Programme in IIT Madras in 2019
- Freelance doubt expert at Vedantu Innovations Pvt. Ltd.

## ACADEMIC PROJECTS

- Mathematical Models of Tumour Growth
- A study in Compact Finite Difference Methods
- Mathematics in Navigation