

# ANAKHA P NAIR

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As a Meteorologist and Oceanographer with extensive experience in data analysis, climate modeling, and environmental assessments. Seeking to leverage my expertise in weather forecasting, marine ecosystem monitoring, and climate change research to contribute to innovative projects and advancements in meteorological and oceanographic sciences. Committed to supporting sustainable environmental solutions and enhancing predictive capabilities.

## EXPERIENCE

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### **Junior Research Fellow, Institute For Climate Change Studies (ICCS) Mar 2024 - Present**

- I am currently working in the project Understanding the dynamic coastal environment Kerala: decoding oceanic climate change signal associated risks at ICCS. Now I'm working with ROMS (Regional Ocean Modelling System).
- The installation part has been completed by me, and now, I am focusing on understanding the basic code structures to go deeper into modelling.

### **Project Associate (Contract), DRDO-Naval Physical and Oceanographic Laboratory ( NPOL)**

**Aug 2022 – Mar 2024**

- Created presentations summarizing project outcomes for senior management review.
- Ocean modelling, utilizing the General Ocean Turbulence Model (GOTM) to generate hourly profiles of temperature, salinity and sound speed in the Arabian Sea.
- And also gained experience in documenting and implementing quality control procedures for CTD and AWS data.
- Gathered data from various sources, including online databases, libraries, and interviews with experts.
- Interpreted results from experiments and surveys to generate meaningful conclusions.

### **GIS Analyst |WIPRO | BANGLORE |**

**Jun 2022 – Aug 2022**

- Map error detection by using Remote sensing and GIS tools, collaborate team work for resolving errors.

- Developed GIS databases for public and private clients using ArcGIS software.
- Analyzed existing datasets to determine accuracy and completeness of spatial features.
- Assisted with development of geodatabases, feature classes, topology rules, domains, subtypes.

## EDUCTAION

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### SHORT TERM COURSE | REMOTE SENSING, GPS & GIS

MG University

2022 - 2022

Dr. Satheesh Centre for Remote Sensing & GIS

### Msc. Climate Science

Kerala University of Fisheries and Ocean Studies

2019- 2021

84.3%

### Bsc. Physics

Calicut University, Sree Kerala Varma College

2015- 2018

72%

## PUBLICATIONS

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Co-author of paper “Role of surface layer temperature inversion in cyclone induced warming in the northern Bay of Bengal” - Journal: Dynamics of Atmospheres and Oceans.

## CONFERENCES

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- Evaluation of General Ocean Turbulence Model Sensitivity and Performance in Simulating Summer Monsoon Conditions in the Arabian Sea – Flash poster with oral presentation- DRDO NPOL – COSMOS April2024

## INTERNATIONAL SYMPOSIUM

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- “Assessment of Dependency of Waves on Tropical Cyclone”- CUSAT-INTROMET 2021

## SKILLS AND ABILITIES

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- Python (for data analysis and visualization)
- Ferret
- MATHLAB
- R Studio
- ArcGIS and QGIS
- Surfer (terrain modeling, landscape visualization, surface analysis, contour mapping, 3D surfaces mapping)

- Grapher
- Numerical modeling (Basics)
- Ocean Data View
- Microsoft Office suite
- CDO

## **PROJECTS**

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“Assessment of Dependency of Waves on Tropical Cyclone”

MSc Dissertation

“cyclone vulnerability assessment of state goa using weighted overlay analysis”

Mini Project

## **FIELD WORKS AND SURVEYS**

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- Topographic Data including slope elevation was taken from Idukki District.
- Conduct fieldwork in a manner that minimizes the environmental impact and respects the local ecosystem.
- Participated in the execution of the project “Identification of water stress hot spots in Kerala -2024”.

## **OBSERVATIONAL DATASETS USED**

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ADCP, Bouy data, High-frequency Radar data, AWS data, CTD

## **ACHIEVEMENTS**

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I achieved the 3rd rank in my MSc program.

## **LINGUISTICS**

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English  
Malayalam  
Hindi  
Tamil

## **TRAININGS ATTENDED**

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- Webinar on “Recent Advances in Atmospheric Sciences”- NCESS Thiruvananthapuram, 30.04.2021.

- Climate Change Adaptation and Disaster Risk Reduction (Online Course) - National Institute of Disaster Management, Ministry of Home Affairs, Govt of India & Institute of Land and Disaster Management, Kerala, 17.02.2021-19.02.2021
- SMART Online Training on Satellite Meteorology-Space Application Centre, Ahmedabad-, 21.12.2020 - 23.12.2020

## REFERENCES

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### **Dr Pankajakshan Thadathil**

Former Science Counsellor to Embassy of India, Japan

Former Chief Scientist & Scientist in Charge, National Institute of Oceanography, Regional Centre Kochi

Adjunct Professor, Department of Physical Oceanography, Kerala University of Fisheries and Ocean Studies, Panangad, Kochi

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### **Dr Maheshwaran P A**

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## DECLARATION

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I hereby declare that the information provided above is true to the best of my knowledge