

# FATHIMA DHISHNA

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## SUMMARY

GIS analyst and a research enthusiast with strong background in Environmental science and Botany. Proficient in using Geospatial technologies for environmental data analysis and research, committed to integrating GIS solutions for environmental protection and sustainability.

## PROFESSIONAL EXPERIENCE

### **Project Assistant, Centre for Environment and Development**

**Dec 2024- Present**

- Assisted in ongoing projects of CED such as Preparation of zonal master plan for eco-sensitive zones of wildlife sanctuaries of Andra Pradesh and Heat hotspots mapping for urban areas using Landsat and Geospatial technologies.
- Involved in vectorisation, thematic mapping, literature collection & study, field survey for socio-economic analysis, water quality reports and documentation.
- Preparation of NDVI, NDWI, NDBI, LST using Landsat data
- Map composition of Thematic maps required in the Project

## EDUCATION

### **MSc Environmental Science**

**2021- 2023**

Central University of Kerala, Kasaragod, Kerala, India  
CGPA: 8.08/10

### **BSc Botany**

**2016- 2019**

PSMO college, University of Calicut, Kerala, India  
Percentage: 84.60

## PROJECTS

### **Atlas Preparation of GIS Maps**

- Developed an Atlas in A3 size with 20 maps depicting more than 100 types of Thematic maps using different spatial data inputs such as cadastral maps, toposheets, Google Imagery, GPS data, CAD data, LANDSAT data and other open source maps.
- Performed advanced geospatial analysis related process like contour preparation, DEM and 3D visualisation, slope, aspect, hill shade, viewshed, Hydrology ( drainage and watershed), Network analysis and virtual GIS (flood, virtual city).
- Experienced in Digital image processing techniques - Image rectification, subset and mosaic, classification, vectorisation on HRS, Preparation of NDVI, NDBI, NDWI, LST etc.
- Customized web enable of GIS outputs for client use.

## **M.Sc Thesis**

- **Title :** Comparison of Electrochemical oxidation and ozonation for the degradation of Propylparaben
- Evaluated the feasibility of using two advanced oxidation process ozonation and electrochemical oxidation for the degradation of an emerging contaminant Propylparaben in water.
- Monitoring techniques: COD, UV visible spectroscopy

## **B.Sc Thesis**

- **Title:** Source to sink: A possible mechanism of transport of Mangiferin in *Salacia brunoniana* and potentiality of leaf extract in anti-cancerous studies
- Investigated the phytochemistry and pharmacological potential of *Salacia* focusing on source to sink transport of mangiferin
- Techniques: HPLC, Methanolic extraction, Cytotoxicity studies

## **INTERNSHIP**

### **Student Intern, National Centre for Earth Science studies**

**2022 (May- June)**

- Project Title: Analysis of Soil samples from Kabini river basin using X-ray fluorescence spectroscopy
- Performed Environmental analysis of soil samples to identify the presence of major oxides and trace elements.

## **TECHNICAL AND RESEARCH SKILLS**

### **GIS (ArcGIS, QGIS)**

- Vectorisation, georeference and projection
- Data Integration and Thematic mapping
- Geodatabase creation
- Spatial Analysis
- Image processing - NDVI, NDBI, NDWI, LST
- DEM and 3D analysis
- LULC, Urban GIS, Network analysis, Hydrology
- Customized web integration

### **Laboratory & Environmental Research**

- Advanced Oxidation Processes (AOPs)
- Water Quality Analysis
- Analytical Instrumentation
- Data Interpretation
- Scientific report Writing

## **ADDITIONAL INFORMATION**

### **Certifications:**

- Advanced course in Geospatial technology (CED, Hyderabad)
- 5 day Online training program on QGIS Essentials (Researchocrat)
- Water resources and watershed management (Swayam)

### **Conferences, webinars & seminars:**

- 11<sup>th</sup> Pure Earth Environmental conference on wetland Ecosystem  
Recognition: **Best paper award**
- One day workshop on Water budgeting by CWRDM and Central University of Kerala in collaboration with KSCSTE

**Volunteer Experience:**

- National Service scheme (NSS)
- Earth Education Volunteer (NGO - Pure Earth Foundation and ConnectFor)

**Languages:**

- English, Malayalam, Hindi, Telugu, Arabic

**REFERENCE****Dr. K. Jayachandra**

Regional Director, Centre for Environment and Development (CED), Hyderabad

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