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**Ammini C.J**

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***EDUCATION***

**Master of Science in BOTANY: A+ Grade CGPA 3.83/5**  2019–2021

Institution: Carmel College, Mala, Trissur, Calicut University, India.

**First class with Distinction**

**Bachelor of Science in BOTANY: A GradeCGPA 4.77/6** 2016–2019

Institution: St. Joseph’s college (Autonomous), Irinjalakuda, Trissur,

Calicut University, India. Passed with **First class With Distinction**

# RESEARCH & PROFESSIONAL ACQUAINTANCE

**Project Fellow** 2021 - Till now

*Kerala Forest Research Institute, Forest Botany Division, Trissur, Kerala*

**Project Title:** *Diversity and seasonal variation of freshwater algae in the selected water bodies degraded and non-degraded Evergreen Forest of Kerala*

**Responsibilities and Achievements**

* Conducted extensive fieldwork to collect freshwater algae samples from degraded and non-degraded Evergreen forests in Kerala.
* Led extensive field trips to the deep forests of the Western Ghats for data collection and analysis.
* Authored comprehensive research reports detailing findings and conclusions.
* Proficient in statistical analysis using R programming language.
* Utilized ArcGIS for spatial analysis and mapping.
* Applied algae culture techniques for laboratory experiments and studies.
* Executed PCR techniques and DNA isolation for genetic analysis.

# ACADEMIC PROJECTS COMPLETED

**Master’s Thesis**

Under the guidance of Dr. Sreekumar V B, Principal Scientist at Kerala Forest Research Institute, Peechi.

**Title**: *Diversity assessment of freshwater algae in summer season: a case study in Peechi Vazhani Wildlife Sanctuary*

* Conducted field surveys in various parts of the Peechi-Vazhani Wildlife Sanctuary during February-March.
* Collected algal samples using a plankton net, fixed them in 4% formalin, and analysed them under a microscope.
* Quantified physiochemical parameters such as pH, alkalinity, acidity, total hardness, nitrate, chloride, calcium, and magnesium.
* Identified 56 species of algae belonging to 10 orders, 16 families, and 29 genera.
* Conducted water quality analysis, revealing a positive correlation between algal diversity and reproduction with high physiochemical parameters.

# ACADEMIC ACHEIVEMENTS

* Presented a paper on “**Systematic studies on Chlorophyceae of Malabar Wildlife Sanctuary, Kerala**” at the International Symposium on Plant Taxonomy, Ethnobotany, and Botanic Gardens, Botanical Survey of India, Kolkata, February 13-14, 2023.
* Presented a paper on “**Systematic investigation on Desmidiales within the semi-evergreen patches of the Kuttampuzha range, Kerala**” at the International Conference on Algae: Food, Feed, Fuels, and Fine Chemicals (ICA-F4'23), Bharathidasan University, Tiruchirappali, September 6-8, 2023.
* Presented a paper on “**Systematic studies on Desmidiales of Aralam Wildlife Sanctuary, Kerala, India**” at the International Seminar on Plant Systematics: Present Status and Future Prospects, February 15-17, 2024.
* Certificate for participation in the Summer School Workshop entitled “**Taxonomy and Ecology of Freshwater Diatoms**” at Agharkar Research Institute, Pune, May 16-20, 2022.

# PUBLICATIONS

* Ammini, C. J, Bibina, P.B, Praseetha, A. P, & Sreekumar, V.B. (2023). “**Taxonomic studies of freshwater algae in the Malabar wildlife sanctuary, Western Ghats, India**.” International journal on algae. (submitted)

# REFERENCES

1. Dr. Sreekumar V.B, Principal Scientist & HoD Forest Botany Department, Kerala Forest

Research Institute, Trissur Kerala India 680653,

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1. Dr. Jayalakshmi P. S, Assistant Professor, Department of Botany, MarAthanasius College (Autonomous), Kothamangalam,

Kerala, India686666

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