

**Name** : Dr Amritha P S, PhD, PGDBI, PGDHRM

**Designation** : Assistant Professor

**Department** : Zoology

**Qualification** : Doctor of Philosophy in Zoology

**Experience** : Teaching – 8 month

**Research** : 5 years

**Area of Specialization(s)** : Pollution Biology

**Email (Official ID)** : [ps\\_amritha@psgrkcw.ac.in](mailto:ps_amritha@psgrkcw.ac.in)



#### Academic Qualifications

Degree	Branch	Institution/University Name	Year of Graduation
Ph.D.	Zoology	PSGR Krishnammal College for Women/ Bharathiar University	2025
M.Sc.	Zoology	PSG College of Arts & Science	2020
B.Sc.	Zoology	Mahatma Gandhi University	2018
PGDBI	Bioinformatics	Kongunadu Arts & Science College	2022
PGDHRM	Human Resource Management	Annamalai University	2023

#### Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
Certification	Coursera – GIS Mastery: Spatial Data, Remote Sensing, Decision Support	Coursera Instructor Network	2025
Certification	NPTEL – Wildlife Biology	IIT Madras	2019

International- 11 (SCIE, SCI, SCOPUS)

1. **I.Sreeram, S., Sathishkumar, R., & Amritha, P. S.** (2021). “Targeting the ENV spike protein of HIV with naturally occurring compounds: an in-silico study for drug designing”. *Advances in Traditional Medicine*, 1–9. Advanced online publication. Doi: <https://doi.org/10.1007/s13596-021-00617-z> (Springer IF: 1.80)
2. **Sasikumar AP, Ramaswamy S, Sudhir S.** (2021) “A scientific pharmacognosy on Gaucher’s disease: an in-silico analysis”. *Environmental Science and Pollution Research Int.* 2021 Nov 28. Doi: 10.1007/s11356-021-17534-y (Springer - IF: 6.80)
3. **P S Amritha, Vinod V, Harathi PB.** “A critical review on extraction and analytical methods of phthalates in water and beverages”. *Journal Chromatography A.* July 2022, 19;1675:463175. Doi: <https://doi.org/10.1016/j.chroma.2022.463175> (Elsevier-IF: 4.759)
4. **P S Amritha, Veena Vinod, Harathi P B.** “Model Periphyton Biofilms: Biological System of Bioremediation of Synthetic Plastics”, *Microbiology.* 92, 686-694 (2023) <https://doi.org/10.1134/S002626172260358X> (Springer - IF: 1.572)
5. **Veena Vinod, Amritha P S, Harathi P B.** “A Systematic Review on Bisphenols – Sources, Health Impacts and Analytical determination of bisphenol A in aqueous samples.” *Separation Science Plus* 6, no.12 (2023): 2300072 (Wiley- IF: 1.3)
6. **Amritha P S, Veena Vinod, Dr Harathi P B.** “Quantitative Estimation of Phthalates from commercial bottled water”. *Indian Journal of Environmental Protection, IJEP* 44(10): 881-888. Vol. 44 Issue.10 (October 2024) (Scopus)
7. **Veena Vinod, Aiswarya, Amritha P S, Dr. P B Harathi.** “An In-silico approach to unlock the potential of microbial enzymes in the degradation of Microplastics”. *African Journal of Biological Sciences* (2023): 6,5,5448-5465 (Scopus)
8. **Veena Vinod, Amritha P S, Dr P B Harathi.** “Extraction, Characterisation and Identification of Microplastics from Landfill soil”. *Indian Journal of Environmental Pollution- IJEP* 45(1): 54-63 (2025) (January 2025) (Scopus)
9. **Amritha, P. S., Saranya, U., Veena, V., & Harathi, P. B.** (2025). Comparison of Presence of Microplastics in Two Edible Fish Species from South India. *Inland Water Biology*, 1-12. <https://doi.org/10.1134/S1995082924600042>
10. **Amritha, P. S., Vinod, V., & Harathi, P. B.** (2025). Presence and Characterisation of Microplastics in Water from Sular Lake, Tamil Nadu, India. *Inland Water Biology*, 1-11. <https://doi.org/10.1134/S1995082925600012>
11. **Vinod, V., Amritha, P. S., & Harathi, P. B.** (2025). Assessing the effects of microplastic pollution on soil and its impact on survival of earthworms and green gram plants. *Discover Soil*, 2(1), 25. <https://doi.org/10.1007/s44378-025-00050-7>

#### Book Chapter Published

1. **Amritha, P. S., & Varunprasath, K.** (2022). Anthropogenic factors change the ecological condition of wetlands in the Southern Kerala Districts in India. In *India II: Climate Change Impacts, Mitigation and Adaptation in Developing Countries* (pp. 183-200). Cham: Springer International Publishing. [https://doi.org/10.1007/978-3-030-94395-0\\_8](https://doi.org/10.1007/978-3-030-94395-0_8)
2. Varunprasath, K., Islam, M. N., & **Amritha, P. S.** (2025). Land Use and Land Cover Analysis in the Alappuzha District, South Kerala, India. In *India III: Climate Change and Landscape Issues in India: A Cross-Disciplinary Framework* (pp. 291-307). Cham: Springer Nature Switzerland. [https://doi.org/10.1007/978-3-031-85126-1\\_11](https://doi.org/10.1007/978-3-031-85126-1_11)
3. Sudhir, S., & **Sasikumar, A. P.** (2022). A Scientific Ethnomedical Study Using Microbes on Gaucher Disease: An In-Silico Analysis. In *Drug Formulation Design*. IntechOpen. DOI: 10.5772/intechopen 107545

#### Reviewer in journal

1. Food Chemistry
2. World Journal of Surgical Oncology
3. Journal of Neurology and Neurological Disorders (JNND)
4. Journal of Environmental Pollution and Control (JEPC)
5. Journal of Applied Pharmaceutical Science

#### Paper presentation in the Conference

##### International:- 3

1. International Conference on Recent Advances in Biotechnology and Environmental Sciences (ICRABES) at Vellore Institute of Technology (VIT) – “Periphyton Biofilms: A novel, natural Biological system of Bioremediation of Microplastics”
2. 2nd International Conference on Emerging Contaminants in Water and Environment (ECWE-2023) associated with Global Groundwater Scientists at PSG Institute of Advanced Studies. – “Impact of Microplastics on the floating Freshwater Plant – *Lemna minor*”
3. International Conference on Advances in Life Sciences – The American College, Madurai – “Unlocking Nature’s Secrets: In Silico Strategies for Combatting Creutzfeldt-Jakob disease with plant and microbial compounds

#### Presentations in Seminar

1. One day National Level Seminar on “Sustainable Environment Management for Future Generations” at KG College of Arts and Science – “Green Waters: Plant-based and Natural adsorbents in the fight against Microplastic pollution”

#### **Participation in Conference**

**Total Number – 5**

#### **Participation in Seminars**

**Total Number - 5**

#### **Participation in Workshop**

**Total Number - 2**

#### **Participation in Faculty Development Programme**

Total Number - 3

#### **Participation in Webinar**

**Total Number – 5**

#### **Grants**

Co-Principal Investigator – GRG Trust Grant – “From Pollution to Prediction: Exploring Microplastic-Driven Shifts in Microbial Composition and Function” – (2025 – 2026) - Received funding of Rs 2,00,000/-

#### **Indexing and Citations**

**Indexing – Scopus, SCI, SCIE**

**Citations – 61**

**H-index – 3**

#### **Contribution**

- Admission Coordinator