# CURRICULAM-VITAE



## PERSONAL DETAILS

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|---|---|---|
| **1.** | **NAME:** | Dr. Patralika Mukhopadhyay |
| **2.** | **DATE OF BIRTH:** | 27.10.1994 |
| **3.** | **ADDRESS FOR CORRESPONDENCE:** | 4/3K/293, Sakuntala Park, Sarsuna Satellite Township, Biren Roy Road (West), Behala, Kolkata-700061 |
| **4.** | **PERMANENT ADDRESS:** | 4/3K/293, Sakuntala Park, Sarsuna Satellite Township, Biren Roy Road (West), Behala, Kolkata-700061 |
| **5.** | **EMAIL:** | patralikamukhopadhyay@gmail.com |
| **6.** | **GENDER:** | Female |
| **7.** | **MARITAL STATUS:** | Unmarried |

## LANGUAGES KNOWN

| LANGUAGE | SPEAK | READ | WRITE |
|---|---|---|---|
| Bengali | Yes | Yes | Yes |
| English | Yes | Yes | Yes |
| Hindi | Yes | Yes | Yes |
| Malayalam | Yes | Yes | No |

## RESEARCH INTERESTS

1. Aquatic pollution and environmental resource management.
2. Movement of contaminants across food webs, with attention to how environmental conditions shape bioaccumulation patterns and ecological risk.
3. Human exposure assessment and health risk evaluation in food systems.
4. Environmental sustainability.

## EDUCATIONAL QUALIFICATION

| | NAME OF THE DEGREE | NAME OF THE INSTITUTION/UNIVERSITY | YEAR OF COMPLETION | PERCENTAGE OBTAINED | GRADE/GRADE POINT OBTAINED | CLASS/RANK |
|---|---|---|---|---|---|---|
| Ph.D. | Doctor of Philosophy under Faculty of Marine Sciences | Cochin University of Science & Technology (CUSAT), Cochin, Kerala | 2026 | NA | NA | Awarded PhD |
| Post Graduation | Master of Fisheries Science | Cochin University of Science & Technology, Cochin, Kerala | 2018 | 82.2 | 8.72 | Rank 1; First class with Distinction |
| Graduation | BSc in Industrial Fish & Fisheries [Chemistry & Zoology (G)] | University of Calcutta, Kolkata | 2016 | 72.87 | NA | First Division |

## ACHIEVEMENTS

- **Rank 1** in Master of Fisheries Science (PG) from Cochin University of Science and Technology (CUSAT).
- **Rank 1** in CUSAT DAT Examination held in 2018.
- Cleared **DST INSPIRE (Dept. of Science & Technology, Govt. of India)** Level 1.
- Awarded **UGC (University Grants Commission)** SJSGC **JRF & SRF (Govt. of India**).
- Received **Young Scientist Award** at National Seminar on Transformative Science and Technology Education for Viksit Bharat in 32$^{nd}$ Swadeshi Science Congress held at Central University of Kerala, Kasargod, during 7-9$^{th}$ January, 2026.
- Received **Best paper award** at the International Conference on Multidisciplinary research held on 6$^{th}$ February, 2025 at St. Alberts College, Ernakulam.
- Recognition as **peer reviewer** for **Springer Nature journals** for reviewing **18 manuscripts (International)**.
- Recognition as **peer reviewer** for reviewing **2** manuscripts in **Elsevier publication journals (International).**
- Recognition as **peer reviewer** for reviewing **2** manuscripts in **Wiley publication journals (International)**.
- **Second Prize**, English Essay Writing Competition, *"LEAF 2019"*, Cochin University of Science and Technology.

## PUBLICATIONS

| PUBLICATION | TITLE OF THE PUBLICATION | NAME OF THE JOURNAL/ PUBLISHER | YEAR OF PUBLISHING | AUTHORS |
|---|---|---|---|---|
| Research Paper | Incidence of microplastic translocation in freshwater fish eggs **(First Report in India)** | Environmental Pollution (Elsevier) **Impact factor: 7.6 Cite Score: 16** | 2024 | Patralika Mukhopadhyay & Shibu A.V. |
| Research paper | Presence of Microplastics in Freshwater Ecosystems: An Unheeded Emerging Concern-A Global Review | Pollution **Impact factor: 1.1** | 2022 | Patralika Mukhopadhyay & Shibu A.V. |
| Research paper | Microplastics in fish and a bivalve species sampled from freshwater environment and retail outlets, and the assessment of human exposure **(First Report in India)** | Food Control (Elsevier) **Impact Factor: 5.6 Cite Score: 14.1** | 2024 | Patralika Mukhopadhyay & Shibu A.V. |
| Research Paper | Seasonal variation, spatial distribution and risk assessment of microplastics in surface waters of Periyar River, Kerala, India | Environmental Monitoring & Assessment (Springer) **Impact Factor: 3.0** | 2024 | Patralika Mukhopadhyay & Shibu A.V. |
| Research paper | Eco-friendly or eco-threat? Influence of feeding zone on biodegradable microplastic uptake in freshwater fish and its impact on environment and food safety **(First Report in India)** | Science of the Total Environment (Elsevier) **Impact Factor: 8.2 Cite Score: 16.4** | 2025 | Patralika Mukhopadhyay & Shibu A.V. |
| Research Paper | Comparative evaluation of biodegradable microplastic presence in edible and non-edible tissues of cage-cultured | Environmental Pollution (Elsevier) **Impact factor: 7.6** | 2025 | Patralika Mukhopadhyay & Shibu A.V. |

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|---|---|---|---|---|
| | and wild fishes of Periyar River **(First Report in India)** | **Cite Score: 16** | | |
| Book Chapter | Implications and Ramifications of Extreme Weather on the Livelihood and Economy of Aquafarmers in Central Kerala | Taylor & Francis | 2022 | Patralika Mukhopadhyay, K. Pankaj, R. Shruthy, Shibu A.V., and M. Harikrishnan |

## TECHNICAL SKILLS

- EXCEL
- ORIGIN PRO
- QGIS
- SPSS
- POWERPOINT

## INSTRUMENTATION & ANALYTICAL SKILLS

- Proficient in handling laboratory instruments such as FTIR, Raman Spectroscope, Fluorescence Microscope, Stereo Microscope, and GC–MS.

- Experienced in questionnaire development, survey design, and data collection for environmental impact and perception studies.

## CONFERENCES

### A. PAPERS PRESENTED:

1. Presented paper titled **"Co-occurrence of Conventional and Biodegradable Microplastics in Aquatic Species: Sustainability, Food Safety and Human Health Implications" in National Seminar on Transformative Science and Technology Education for Viksit Bharat** in 32nd Swadeshi Science Congress held at Central University of Kerala during 7-9th January, 2026.
2. Presented paper titled **"Biodegradable Microplastics in Commercially Important Fishes from Cochin Estuary: An Emerging Threat to Sustainability and**

**Ecosystem Integrity"** in an International Conference on Advances and Innovations for Sustainable Aquatic Systems (AQUASEM'25) held from August 11th –13th, 2025 at the School of Marine Sciences, Cochin University of Science & Technology (CUSAT), Kochi, Kerala, India.

***3.*** Presented paper titled **"Biodegradable microplastic contamination in edible tissues of cage-cultured and marketed freshwater fish from the Periyar River: a growing challenge to sustainability"** in a national seminar on Frontiers of Environmental Science: Strategies for a Sustainable Future -Commemorating World Environment Day 2025" held on 13th June, 2025 in Tezpur University, Assam, India.

4. Presented paper titled **"Incidence of microplastic contamination in cage-cultured fishes of River Periyar"** in Albertian Knowledge Summit (AKS, 2025) –International Conference on Multidisciplinary Research held on 6th February, 2025 in St. Albert's College, Kochi, India.

5. Presented paper titled **"Microplastic contamination in the edible tissues of fresh fish products sourced from retail outlets"** in National Seminar on "Aqua Food Excellence: Innovations in Post-Harvest Fisheries" held from 2nd-4th September, 2024 in CIFT, Kochi, India.

6. Presented paper titled **"Presence of microplastics in gastrointestinal tract of a commercially important fish species from Kerala, India"** in two-day National seminar on Sustainable Management of Natural Resources for Food security and Livelihood Promotion under Climate Change Scenario held from 29th-30th March, 2024 in Midnapore City College, Paschim Medinipur, West Bengal, India.

7. Presented paper titled **"Implications and ramifications of extreme weather on the livelihood and economy of aquafarmers in Central Kerala"** in an International Conference CLIMFISHCON 2020 on Impact of Climate Change on Hydrological Cycle, Ecosystem, Fisheries and Food Security held from 12th-14th February, 2020 organized jointly by School of Industrial Fisheries, CUSAT and Dept. of Fisheries, Govt. of Kerala.

8. Presented paper titled **"Incidence of microplastics in *Villorita cyprinoides* from Vembanad Lake"** in the National Conference on Marine Debris COMAD 2018 held during 11-12th April, 2018 at CMFRI, Kochi.

## B. PARTICIPATIONS

1. Participated in national level workshop *"Rebuilding Kerala: new paradigms for the development of fisheries sector (Rebuild Fish)"* organised by School of Industrial Fisheries, CUSAT and Industrial Fisheries Students Association (IFSA) on 17th December, 2018.
2. Participated in national seminar on aquatic chemistry *Aquasem'19*, organised by the Department of Chemical Oceanography, Inter University Centre for Development of

Marine Biotechnology and Society of Aquatic Chemists, on 21–23rd March, 2019 at School of Marine Sciences, CUSAT.

3. Participated in One-Day International Webinar on *"Challenges and Opportunities for Fisheries under the COVID Pandemic – Country perspectives"* on 29th September, 2020 organised by Department of Fisheries Resource Management, College of Fisheries, CAU (Imphal), Lembucherra, Tripura, India.
4. Participated in One-day National Webinar on *"Advances in Fish Vaccines and Prophylactics"* on 30th September, 2020 organized by the Department of Fish Pathology and Health Management, Fisheries College and Research Institute, Thoothukudi.
5. Participated in One-Day National Webinar on *"Integrated Waste Management through Corporate Social Responsibility"* on 2nd October, 2020 organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India.
6. Participated in Three-Day National Webinar on *"Academic Publishing & Research Metrics"* from 7th–9th October, 2020 organized by Library, School of Management Studies, Cochin University of Science and Technology, Kerala.
7. Participated in One-Day National Webinar on *"Blockchain: Revolutionising the Agricultural Sector"* on 7th October, 2020 organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India.
8. Participated in One-Day National Webinar on *"Application of Quality Control Tools for Continuous Improvements"* on 15th October, 2020 organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India.
9. Participated in One-Day National Webinar on *"Minimizing Waste and Maximising Profit"* on 18th October, 2020 organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India.
10. Participated in One-Day National Webinar on *"Environmental Due Diligence"* on 22nd October, 2020 organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India.
11. Participated in Three-Day International Webinar *SOFI-2020 on "Sustainable Ornamental Fisheries: Way Forward"* from 15th–17th October, 2020 organized by School of Industrial Fisheries, Cochin University of Science and Technology, Kerala, India.
12. Participated in Two-Day *XIV World Aqua Congress (International Conference) on "Water and Climate Change"* from 29th–30th October, 2020 organized by Aqua Foundation.
13. Participated in One-Day International Webinar on *"Marine Biodiversity of India: The Known and Unknown"* on 15th November, 2020 facilitated by Dr. A. Bijukumar, Professor and HOD, Department of Aquatic Biology and Fisheries, University of Kerala, India, organized by Biodiversity Conservation Foundation, India.

14. Participated in One-Day National Webinar on *"Effective Waste Management through Extended Producer Responsibility (EPR)"* on 22nd November, 2020 organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India.
15. Participated in Three-Day National Webinar on *"Microplastics in Marine Environment (MIME-2020)"* from 25th–27th November, 2020 organized by Department of Marine Science, School of Marine Sciences, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
16. Participated in One-Day National Webinar on *"Understanding EIA: New legislations and their impact on our future"* on 20th October, 2020 organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India.
17. Participated in National Webinar on *"Plastic problems and its solutions"* organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India held on 4th February, 2021.
18. Participated in National Webinar on *"Plastics waste management – Challenges and Opportunities (A holistic view)"* organized by National Productivity Council, Department for Promotion of Industry & Internal Trade, Ministry of Commerce and Industry, Government of India held on 17th February, 2021.
19. Participated in National Webinar on *"Artificial Intelligence"* organized by UGC-HRDC, Gujarat University held on 15th February, 2021.
20. Participated in Workshop on *"Writing Quality Research Articles & Identifying Relevant Journals to Read and Publish In"* organised by University Library and Elsevier on 14th December, 2021.
21. Participated in a Webtalk on *"Fundamentals and Techniques of Writing Project Report and Thesis"* organised by National Productivity Council (under DPIIT, Ministry of Commerce and Industry, Government of India) on 29th November, 2022.
22. Participated in a Webtalk on *"Environmental Due Diligence"* organised by National Productivity Council (under DPIIT, Ministry of Commerce and Industry, Government of India) on 29th November, 2022.
23. Participated in a Webtalk on *"Best Waste Management Practices"* organised by National Productivity Council (under DPIIT, Ministry of Commerce and Industry, Government of India) on 29th November, 2022.
24. Participated in a Webtalk on *"Descriptive Statistics"* organised by National Productivity Council (under DPIIT, Ministry of Commerce and Industry, Government of India) on 29th November, 2022.
25. Participated in a talk on "Accelerate your Research Using Elsevier's Science Direct and Scopus" at Cochin University of Science & Technology on 20$^{th}$ December, 2022.
26. Participated in Two Days International Seminar on "Exploring AI applications in Sustainable Fisheries, Food Processing and Trade" organized by School of Industrial Fisheries, CUSAT in association with Josip Juraj Strossmayer University of Osijec, Croatia on 11$^{th}$ and 12$^{th}$ September, 2023 at Lakeside Campus, Cochin University of Science & Technology.

27. Participated in "Statistical Analysis with R" conducted by Cochin University of Science and Technology (CUSAT) Student's Union as part of "Article 51A (h) Skill Orientation Camp on 14th September, 2023.
28. Participated in One Day Seminar on "IPR Awareness" organized by IUCIPRS, Cochin University of Science & Technology on 25th October, 2023 at Lakeside Campus.
29. Participated in One Day National Seminar on "Basics of Statistics and Data Analysis" on 8th December, 2023 at Dept of Chemical Oceanography, Cochin University of Science & Technology in association with RUSA2.0.
30. Participated in International Conclave on Next Gen Higher Education organized by Dept of Higher Education, Kerala and Kerala State Higher Education Council on 14-15th January, 2025 at Cochin University of Science & Technology, Kochi.

## TRAINING/WORKSHOPS

1. Completed a 5-day Online training program titled "QGIS Essentials" on March, 15, 2024 conducted by Researchocrat.
2. Attended 3-day online workshop on "Microplastic Data Analysis" on 6th September, 2024 conducted by Researchocrat.
3. Completed the course on 'Use and Applications of SPSS" from 21st to 25th November, 2022 organized by Computer Society of India, Kolkata Chapter.
4. Completed Online Training Programme under ICAR-DoF Convergence on *"Management of Soil & Water Quality in Aquaculture"* held on 13th January, 2021.
5. Completed Online Training Programme under ICAR-DoF Convergence on *"Feed and feeding methods in Aquaculture"* held on 22nd January, 2021.
6. Completed Online Training Programme under ICAR-DoF Convergence on *"Diversification in Aquaculture"* held on 30th January, 2021.
7. Completed Online Training Programme under ICAR-DoF Convergence on *"Live feed culture and Feeding technique of Ornamental fish"* held on 6th February, 2021.
8. Completed Online Training Programme under ICAR-DoF Convergence on *"Use of chemicals and their effect in aquaculture"* held on 27th February, 2021.
9. Completed Online Training Programme under ICAR-DoF Convergence on *"Application of drugs and chemicals in Aquaculture"* held on 27th March, 2021.
10. Completed 2 days Online Training Program on "Water quality and quality aspects" organised by CSIR-NEERI, Nagpur on October 20-21,2020.
11. Completed "On Job Training in Fisheries Post Harvest Technology" during the period 2nd December, 2015 to 30th December, 2015 organised by NIPHATT, Kerala, Government of India.

12. Completed training program on "Freshwater fish and Prawn Farming" organised by Ramkrishna Ashram KVK Nimpith, South 24 Parganas from 9th February, 2015 to 13th February, 2015.

## TEACHING EXPERIENCE

1. 6 years of teaching experience (2019-2025) during Ph.D. period.
2. Conducted theory and practical classes of MSc and MFSc students across semester I, II, III & IV.

## CONTRIBUTIONS IN INTERNATIONAL JOURNALS

Recognized as a **peer reviewer** for **reviewing 22 manuscripts in international journals**, including **Springer Nature** journals, **Elsevier journals**, and **Wiley journals**.

| | **Journal Name** | **Publisher** | **Review period** |
|---|---|---|---|
| 1 | Ecotoxicology | Springer Nature | April 2025 |
| 2 | Discover Sustainability | Springer Nature | June 2025 |
| 3 | Discover Environment | Springer Nature | June 2025 |
| 4 | Environmental Sciences Europe | Springer Nature | September 2025 |
| 5 | Archives of Environmental Contamination and Toxicology | Springer Nature | September 2025 |
| 6 | Environmental Monitoring and Assessment | Springer Nature | September 2025 |
| 7 | Scientific Reports | Springer Nature | November 2025 |
| 8 | Environmental Monitoring and Assessment | Springer Nature | January 2026 |
| 9 | Aquatic Ecology | Springer Nature | January 2026 |
| 10 | Environmental Geochemistry & Health | Springer Nature | January 2026 |
| 11 | Discover Environment | Springer Nature | March 2026 |
| 12 | Discover Environment | Springer Nature | May 2026 |
| 13 | Discover Environment | Springer Nature | May 2026 |
| 14 | Environmental Geochemistry & Health | Springer Nature | May 2026 |
| 15 | Aquatic Ecology | Springer Nature | May 2026 |
| 16 | Aquatic Ecology | Springer Nature | May 2026 |
| 17 | Discover Water | Springer Nature | June 2026 |
| 18 | Discover Environment | Springer Nature | June 2026 |
| 19 | Environmental Pollution | Elsevier | September 2025 |
| 20 | Food Control | Elsevier | May 2026 |
| 21 | Journal of Chemistry | Wiley | March 2026 |
| 22 | CLEAN- Soil, Air, Water | Wiley | April 2026 |

## ORGANIZING CONFERENCES/SEMINARS

1. Organised an "Invited Lecture" by a Professor from University of Maryland, USA, on "Addressing Environmental Challenges at UMD: Sources of pollutants and potential impacts to the Chesapeake Bay" on 9th October, 2025.

2. Assisted in organizing the National-Level Workshop on *"Rebuilding Kerala: New Paradigms for the Development of the Fisheries Sector (Rebuild Fish)"* held on 17 December 2018, conducted by the School of Industrial Fisheries, CUSAT, in association with the Industrial Fisheries Students Association (IFSA).

3. Assisted in organizing the International Conference *"CLIMFISHCON 2020"* held from 11–14 February 2020, conducted by the School of Industrial Fisheries, CUSAT, in association with the Government of Kerala.

4. Assisted in organizing *"SIF Industry Connect 2024"* held on 12 August 2024, organized by the School of Industrial Fisheries (SIF) and the SIF Alumni Network, CUSAT.

## NAME & ADDRESS OF REFEREES

1. **Dr. Shibu A.V.**
   Assistant Professor
   School of Industrial Fisheries
   Cochin University of Science & Technology
   Lakeside Campus
   Kochi, Kerala-682016
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2. **Prof. Dr. M. Harikrishnan**
   Senior Professor & Former Director
   School of Industrial Fisheries
   Cochin University of Science & Technology
   Lakeside Campus
   Kochi, Kerala-682016
   Contact: mahadevhari@cusat.ac.in; Mob: +919447327804

3. **Dr. Mini Sekharan N.**
   Director
   School of Industrial Fisheries
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   Contact: minisekharan@cusat.ac.in; Mob: +919895070310