

J CATHRINE

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EDUCATION

J Cathrine boasts a distinguished educational background, reflective of her commitment to academic excellence.

- She pursued her **M.Sc. in Water Science and Policy** at Shiv Nadar University from 2017 to 2019, achieving an outstanding **CGPA of 10**. Her thesis, titled "*Ecosophy – Drought, attitudes, and the state – A Case study of Nuapada district of Odisha*," showcased an in-depth exploration of socio-economic challenges related to water management.
- Further enriching her academic journey, she completed the **Young India Fellowship (YIF) at Ashoka University** in 2016-2017, obtaining a PGD in Liberal Studies and Leadership Programme with a notable GPA of 3.4/4.
- Prior to her postgraduate studies, she excelled in her undergraduate pursuits, earning a First Class with in **B. Sc. (H) Physics from St. Stephens College, University of Delhi**, spanning the years 2011 to 2014.
- Her academic vigour was evident even earlier **during Class XII** where she secured an **impressive 94%** (CBSE).

PROFESSIONAL EXPERIENCE

- In November 2025, delivered a dedicated session on **Blue Economy and Marine Spatial Planning (MSP): Policy Interventions through a UDA Lens – connecting marine resource governance to land-based ecosystem management for integrated sustainability** for Government officials from **NDRF, BSF, and ICAR as part of the Karmayogi Bharat capacity-building initiative**.
- At present Ms. Cathrine is a part of the national task force on Underwater Radiated Noise (URN) for the IMO Glo Noise project.
- In the capacity of **Co-Chair at the session on Underwater Domain Awareness (UDA)** during the [World Ocean Sciences Conference \(WOSC\) 2024](#), J Cathrine played a pivotal role in facilitating discussions and strategic planning, significantly contributing to the success of the session.
- Additionally, Ms. Cathrine has demonstrated expertise by authoring and presenting a comprehensive [position paper on Marine Spatial Planning \(MSP\), 2024](#), showcasing a profound understanding of spatial planning intricacies within marine environments.
- Functioning as a leader, she took the initiative to spearhead the development of a [skilling handbook for the UDA initiative, 2024](#) with a specific focus on empowering individuals within the blue economy sector.
- Co – wrote three impactful chapters on – **Marine Spatial Planning, Marine Energy Transition and Marine Biotechnology** for [FICCI Taskforce report 2023](#).
- Active participation in the **10th South and Central Asian Biosphere Reserve Network Meeting (SACAM), 2023** underscored J Cathrine's commitment to representing the blue economy sector on a regional platform.
- Ms. Cathrine has also conducted **impactful webinar presentations on various events** by MRC and NDT, effectively disseminating knowledge on critical issues within the [blue economy landscape](#).
- Simultaneously, she has completed the design process of [e-learning modules for an online blue economy course](#), a venture aimed at improving the accessibility of knowledge in this critical sector.

ONGOING INITIATIVES

In her current professional undertakings, J Cathrine is at the forefront of several ongoing initiatives.

- She holds a leadership role in guiding an expert team in the development of an influential **handbook on Marine Spatial Planning (MSP)**. In this capacity, Ms. Cathrine contributes comprehensive insights and guidelines that promise to shape the trajectory of spatial planning within marine environments.
- Furthermore, Ms. Cathrine is involved in a substantial **monograph project centred around the transboundary nature of Indus and Brahmaputra River basins**. This initiative is a culmination of her previous contribution to a national level expert committee on transboundary river management in India. Here she focuses on exploring sustainable development and management strategies for addressing complex challenges in the field of water resources.
- Ms. Cathrine is also working on a comprehensive project on the **Science of Underwater Domain Awareness (UDA)**, for which she will design e-learning modules aligning with the decade of Ocean Sciences.

CURRENT POSITIONS OF RESPONSIBILITY

In her various positions of responsibility, J Cathrine has showcased exemplary leadership and commitment.

- She is currently serving as the **Underwater Radiated Noise (URN) Specialist** for [NirDhwani Technologies](#), Pune and **research and publication head** at [Maritime Research Center \(MRC\)](#). Her core areas of interest include, URN, Marine Spatial Planning (MSP) and Blue Economy.
- Simultaneously, in her role as the **Co-Editor of the [UDA Knowledge Center](#)**, Ms. Cathrine ensures the highest standards of quality and accuracy in disseminating information.
- Her dedication to fostering practical learning experiences is evident in her role as the **[Internship/fellowship Coordinator](#)** at MRC where she actively facilitates engagement, providing aspiring students and professionals with valuable hands-on opportunities.

Through these diverse roles, Ms. Cathrine exhibits a multifaceted approach to leadership and a steadfast commitment to nurturing expertise and knowledge within her professional domain.

Recent Publications

- [*Marine Spatial \(MSP\) Position Paper*](#) — a position paper on Marine Spatial Planning authored by J. Cathrine, Dr. (Cdr) Arnab Das and Ambassador Anup K. Mudgal.
- UDA for Bay of Bengal Region – Framework for Good Governance, J Cathrine & Dr. Arnab Das, [Souvenir Publication of Asian Confluence Bay of Bengal Study Center](#)
- [Ocean-Informed Cooling: MSP and UDA Interventions for Addressing Extreme Heatwaves by J Cathrine, Maritime Research Center, Pune, India](#), From *Heatwaves to Cooling Futures: Maharashtra's Leadership in Climate Action in India*, [Southasiadisasters.net](#), Issue No. 226 / November 2025
- [Developing a Comprehensive Handbook for Marine Spatial Planning in Tropical Waters - UDA Digest](#), J Cathrine
- [Catalysing Action for Our Ocean & Climate through Underwater Domain Awareness - UDA Digest](#), J Cathrine
- [Advancing Water Quality in the Indus River Basin: Exploring Technological Interventions - UDA Digest](#), J Cathrine
- [Financing Blue Economy – Outcomes of COP28 - UDA Digest](#), J Cathrine
- [The Future of the Indus Water Treaty: Review of Indus Waters Treaty through Socio-political, Environmental, and technical lens - UDA Digest](#), J Cathrine
- *The Skilling Modules for Underwater Domain Awareness* — a handbook authored by J. Cathrine, Dr. (Cdr) Arnab Das and Rushikesh Wanjare.