

Research Interests

- Sustainable Livelihood Development
- Monitoring, Evaluation and Impact Assessment
- Circular Economy
- Gender, Technology and Climate Change
- Intellectual Property Rights

Academic Interests

Courses taught

- Communication and Journalism
- Organizational Behaviour and Development
- Monitoring, Evaluation and Impact Assessment
- Gender Mainstreaming and Livelihood Development
- Technology Commercialization and Intellectual Property Management
- Extension Service System

Students Guided

- Ph.D. : 12 awarded
- M.F.Sc./M.Sc.: 28 awarded
- Post Graduate Diploma (Fisheries Administration & Management): 5 awarded
- Post Graduate Diploma in Technology Management in Agriculture, ICAR-National Academy of Agricultural Research Management (NAARM) and University of Hyderabad (UoH): 1 awarded

Publications Select Papers

S. No.	Name	Year	Title	Journal	Vol	Page No.	NAA S ID	NAAS rating
1.	N. Katre, Arpita Sharma , S.N. Ojha, L. Tyagi and V.K. Yadav	2024	Reservoir Fisheries Governance Quality Index: Development and Validation	Ecological Indicators	158	1-12	E011	13.4
2.	S.D. Waghmare, S. Prakash, Arpita Sharma , K.K. Krishnani, V.K. Yadav and N. Qureshi	2024	Evaluating Economic Viability and Environmental Externalities of Integrated Tilapia-sugarcane Farming in Maharashtra	Agricultural Water Management	302	108967	A102	12.5
3.	S. Wasave, S. Kamble, T. Kazi, S. Wasave, Sreekant G. B. and Arpita	2025	A Bibliometric Review on Ghost Fishing: Impacts on Marine Environment	Marine Pollution Bulletin	212	212 117604	M022	10.9

	Sharma		and Governing Measures					
4.	K. Suresh K. Patro, V.K. Yadav, V. S. Bharti, A. Sharma, Arpita Sharma and T. Senthil Kumar	2023	IoT and ML Approach for Ornamental Fish Behaviour Analysis	Scientific Reports	13	1-17	S023	9.9
5.	C. P. Dave, V.K. Yadav, G. Kantharajan, Arpita Sharma , L. Paul, R. Choudhury, M. Meharoof and M. Sharma	2025	Integrated Analysis of Land Use Changes, Ecosystem Service Valuation, and Carbon Sequestration in the Dimbhe Watershed (2002–2022)	Discover Sustainability	6	1-24	D037	9
6.	M. Meharoof, V.K. Yadav, Arpita Sharma , V. Anitha and T. T. Paul	2025	Integrated Economic and Fuzzy Multi-criteria Analysis for Evaluating Performance of Fishing Systems	Discover Sustainability	6	383	D037	9
7.	B. M. Yadav and Arpita Sharma	2022	Gender Analysis of Ornamental Fish Production Units in Maharashtra	Frontiers in Marine Science	9	1-11	F099	9
8.	Ninan S. and Arpita Sharma	2006	Cross Sectional Analysis of Patents in Indian Fisheries Sector	Journal of World Patent Information (Elsevier Journal)	28	147-158	-	8.7
9.	R. Kalidos, B. Bayan, S. Prakash, P. S. Ananthan, A. Susan Sam, S. Shil, Arpita Sharma , S. Das, K. Karuna Sri	2025	Optimizing Technical Efficiency in Whiteleg Shrimp Aquaculture: A Double Bootstrap Data Envelopment Analysis	Aquaculture International	33	33:362	A277	8.40
10.	S. Pal, V. K. Yadav, Arpita Sharma , P. S. Ananthan, N. Qureshi, S. Dey, P. Jana, S. Karmakar and S. N. Ojha	2022	Coastal Multi- Hazard Vulnerability Mapping: A Case Study Along the Coast of South 24 Parganas District, East Coast of India	Journal of the Indian Society of Remote Sensing	50 (9)	1701–1712	J563	8.2
11.	S. Agnes Daney Angela and Arpita Sharma	2023	Analysis of Socio-economics and Occupational Dimensions of Shrimp Farmers of Tamil Nadu	Aquaculture Research		1-17	A280	7.9

12.	Arpita Sharma and Sethulakshmi C.S.	2023	Assessment of Occupational Hazards and Usage of Sea Safety Devices by Fishers of Kerala, India	Journal of Agromedicine	-	1-9	J037	7.7
13.	S. Prusty and Arpita Sharma	2023	Occupational Hazards Faced by Inland Fishers of Odisha State, India	Journal of Agromedicine	-	1-8	J037	7.7
14.	K Suresh Kumar Patro, V.K. Yadav, V.S. Bharti, A. Sharma and Arpita Sharma	2023	Fish Detection in Underwater Environments Using Deep Learning	National Academy Science Letters- India (Springer)	46 (5)	407–412	N010	7.3
15.	S. Soni, Arpita Sharma and M. Xavier	2026	Consumer Perception Assessment of Leather Developed From Discarded Fish Skins	Agricultural Research	-	1-10	A095	7.1
16.	Arpita Sharma , S. Prusty, Rajiv Rathod, Arthi R., Andrew Watterson and Lissandra Cavalli	2023	Occupational Hazards of Indian Shrimp Farm Workers	All Life	16 (1)	1-15	A125	7.1
17.	K. Dhenuvakonda, Arpita Sharma , K. P. Prasad, R. Sharma and S.K. Sharma	2021	Development of an Android Based Application System for Fish Farmers	Agricultural Research	11	240-248	A095	7.1
18.	M. Meharoof, V.K. Yadav, Arpita Sharma , Anitha, V., T.T. Paul, L. Paul, C.P. Dave	2024	Economic Valuation of Cultural Ecosystem Services: A Case of Tropical Reservoir Ecosystem	Journal of Environmental Biology	45(5)	576	J211	6.7
19.	Gaind Singh and Arpita Sharma	2025	Impact of Fisheries Development Programmes on Livelihoods: A Perception-Based analysis of Fish Farmers in Chattisgarh, India	Indian Journal of Fisheries	73 (2)		I068	6.3
20.	S. Gul, S. Prakash, N.W. Qureshi, V.K. Yadav, Arpita Sharma and S. A. Mir	2024	Economic Assessment and Sustainable Management of Artisanal Fisheries: Insights from River	Indian Journal of Fisheries	71(3)	157-163	I068	6.3

			Jhelum, Kashmir, India					
21.	K. Suresh Kumar Patro, V.K. Yadav, S.D. Waghmare and Arpita Sharma	2024	Temporal Dynamics of Land Use Land Cover (LULC) Changes and Assessment of Environmental and Climatic Parameters Using Remote Sensing and GIS: A Case study in Limboti Reservoir, Loha Taluka, Maharashtra, India	Indian Journal of Fisheries	71 (3)	48-59	I068	6.3
22.	A. Ghosh, S.S. Dana, Arpita Sharma , P.K. Sahu, D. Basu and R. Goswami	2022	Impacts of Fishers' Livelihood Developmental Interventions in Indian Sundarbans: An Explorative Study,	Indian Journal of Fisheries	69 (1)		I068	6.3
23.	Amitava Ghosh, S.S. Dana, Arpita Sharma , P.K. Sahu, D. Basu, and R. Goswami	2022	Perception of Fishers about Livelihood Developmental Interventions by Various GOs and NGOs in Indian Sundarbans: A Comparative Study	Indian Journal of Fisheries	69	146-153	I068	6.3
24.	S.V. Patil and Arpita Sharma	2021	Prioritisation of Training Needs of Extension Personnel in Brackishwater Shrimp Aquaculture of Maharashtra, India	Indian Journal of Fisheries	68(4)	135-141	I068	6.3
25.	B. Debnath, M. Krishnan, P.S. Ananthan, B. Debnath, Arpita Sharma and R. Sharma	2015	Fisheries of Gumti (Dumboor) Reservoir in Tripura: Production, Performance and Management	Indian Journal of Fisheries	62 (3)	14-20	I068	6.3
26.	Amitava Ghosh and Arpita Sharma	2014	Content Analysis of Fisheries vis-a-vis Agriculture and Animal Husbandry based (Krishidarshan) Live-phone-in Television Programmes in West Bengal	Indian Journal of Fisheries	61 (2)	146-150	I068	6.3

27.	Ninan S., Arpita Sharma , P.S. Ananthan and S.N, Ojha	2005	Intellectual Property Rights in Fisheries Sector	Journal of Intellectual Property Rights	10	52-58	0971- 7544	6.21
28.	Arpita Sharma and Gaind Singh	2018	Fisheries Development Programmes and Profile of Beneficiaries in Chhattisgarh	Indian Journal of Economics and Development	6(4)	1-7	I059	6.2
29.	Nidhi Katre, S.N. Ojha and Arpita Sharma	2023	Fisherwomen Participation in Fisheries: A Case Study of Bargi Reservoir, inn M.P., India	Fishery Technology	60 (2)	1-8	F021	6.2
30.	Arpita Sharma	2013	Patenting Activities in Cage Culture- A Posteriori Approach	Fishery Technology	50 (1)	92-96	F021	6.2

Other Publications

BOOKS

Select Books

1. **Arpita Sharma** and Shivta Kureel (2025) Grassroot Innovations in Fisheries and Aquaculture, Rupam Sharma and S.P. Shukla (eds), Published by Daya Publishing House®, A Division of Astral International Pvt. Ltd., Ansari Road, Darya Ganj New Delhi-110 002, ISBN: 978-93-5919-916-0, pp: 113
2. Shweta Kumari and **Arpita Sharma (2025)** Pinjrey mein Machli Paalan, Published by Daya Publishing House®, Astral International Pvt. Ltd., Ansari Road, Darya Ganj New Delhi-110 002, ISBN: 978-93-5919-662-26, pp: 117
3. **Arpita Sharma**, G. Venugopal, R. Sharma, S. P. Shukla, S. Babu and P. B. Sawant (eds) (2012) Indigenous Technical Knowledge in Fisheries of East Coast of India, Published by NPH, New Delhi, ISBN No. 978-93-80428-70-3, pp.165
4. **Arpita Sharma**, R. Sharma, S. P. Shukla and P.B. Sawant (eds) (2012) Indigenous Technical Knowledge in Fisheries Sector of Northern and Central Region of India, Published by NPH, New Delhi, ISBN No. 978-93-80428-65-9, pp.118
5. **Arpita Sharma**, R. Sharma, S. P. Shukla and P. B. Sawant (eds) (2012) Indigenous Technical Knowledge in Fisheries Sector of West Coast of India, Published by NPH, New Delhi, ISBN No. 978-93-80428-65-9, pp. 212
6. D. Kumar, **Arpita Sharma**, R. Sharma, S.P. Shukla and S. Babu (2010) Indigeneous Technical Knowledge in Fisheries Sector of North east, India, Published by CIFE, Mumbai, ISBN No. 978-93-80469-79-9 (Set) 978-93-80469- pp:122
7. **Arpita Sharma** eds (2022) Chatra Shodh Saransh, (Student Research Abstracts) Published by ICAR-CIFE, Mumbai (Awarded Best Hindi Publication by ICAR-CIFE, Mumbai in 2022)

8. Dilip Kumar, R. Uniyal, S.P. Shukla, **Arpita Sharma** (2010) Pracheen Granthon Mein Matsya Evam Matsyiki (Fish and Fisheries in Ancient Scriptures), Published by NPH, New Delhi

Book Chapters

Select Book Chapters

1. V.K. Yadav, L. Paul, Akhil A. Sambhe, V.S. Bharti, **Arpita Sharma**, and A. Deo (2025) An Integrated Framework for Shrimp Detection, Tracking, Counting, and Behavioral Analysis Using YOLOv8 and Deep Learning-Based Computer Vision Mode, in International Conference on Systems and Technologies for Smart Agriculture (ICSTA), Springer Proceedings in Information and Communication Technologies, pp: 311-323, ISBN 978-981-97-5157-0
2. S. Mauria and **Arpita Sharma** (2018) IPR in Fisheries, in the Book Aquaculture in India, S.D. Tripathi, W.S. Lakra and N.K. Chadha (eds), NPH Publishers, New Delhi pp: 599-618
3. N. Gopal, S.S. Salim, M. Krishnan, R.S. Biradar, P. Kathia, N.K. Barik, R. Kumar, **Arpita Sharma** and K. Ponnusamy (2014) Marketing and Processing, Chapter 8 pp: 245-280 in the book Livelihood Status of Fishers in India, Published by CMFRI, Cochin pp: 348
4. S.S. Salim, R. Narayanakumar, P. Kathia, M. Krishnan, N.K. Barik, N. Gopal, R.S. Biradar, **Arpita Sharma** and K. Ponnusamy (2014) Marine Capture Fisheries, Chapter 2 pp: 17-46 in the book Livelihood Status of Fishers in India, Published by CMFRI, Cochin pp: 348
5. **Arpita Sharma** (2008) Fisherwomen and Entrepreneurship in the book Empowerment of Women through Entrepreneurship edited by L. Rathakrishnan. New Delhi, Gyan Publishing House, New Delhi, Gyan Publishing House
6. Ninan Sunitha and **Arpita Sharma** (2007) Issues of Patenting of Life Forms, Advances in Fish and Wild Life Ecology and Biology, Vol IV, Ed. B.L. Kaul, Daya Publications, Delhi. 113-120
7. S.N. Ojha, **Arpita Sharma** and Shyam Salim (2005) Institution Building Process of a Fisherwomen Society for Fisheries Product Development in the book Women Empowerment in Fisheries/edited by A.S. Ninawe and A.D. Diwan, Narendra Publications, Delhi, 151- 158
8. **Arpita Sharma** (2004) Fisheries Sector: A Gendered Perspective in the book Advances in Fish and Wild Life Ecology and Biology, Vol. III, Edited by B.L. Kaul, Daya Publications, Delhi, 201-205
9. **Arpita Sharma** (2004) Attributes of a Successful Entrepreneur published in manual for Business Strategies in Fisheries and Aquaculture, Narendra Publication House, Delhi, 151-158

Papers in International conference proceedings

1. Flavielle Blanco Marques, Andrew Watterson, Rebecca J Mitchell, Mohamed Jeebhay, Dorothy Ngajilo, Deji Adeoye, Giovani Bettoni, **Arpita Sharma**, Maria Helena Fermino, Benito Guimarães de Brito, Kelly Cristina Tagliari de Brito, Silvio Cazella, Luceni Hellebrandt, Kirill Buketov, Lissandra Souto Cavalli (2018) AquaSafe - Application of Mobile Devices in Promoting Occupational Safety and Health in Aquaculture (Aquasafe – aplicativos para dispositivos móveis na promoção da segurança e saúde ocupacional na aquicultura) in the Anais do VII Salão de Iniciação Científica e de Inovação Tecnológica; de Pós-Graduação - Porto Alegre: Departamento de Diagnóstico e Pesquisa Agropecuária

(DDPA); Secretaria da Agricultura, Pecuária e Irrigação (SEAPI), 2018, v. 24, n. 3, pp: 1-72

2. D. Kumar, Ananthan P.S., A.K. Reddy and **Arpita Sharma** (2013) Good Governance, Policies, and Other Frameworks that Work in Favour of Small-Scale Aquaculture Producers: Enhancing the Contribution of Smallscale Aquaculture to Food Security, Poverty Alleviation and Socio-economic Development, pp: 189-196 in FAO Fisheries and Aquaculture Proceedings No. 31. Rome. FAO. Bondad-Reantaso, M.G. and Subasinghe, R.P., eds. pp: 255

In the Proceedings of FishAdapt: The Global Conference on Climate Change Adaptation for Fisheries and Aquaculture, Bangkok, 8-10 August, 2016.

3. **Arpita Sharma**, Nandini J and Rishabh Sharma (2019) Potential effects of climate change on livelihoods of fishers of Bhadra reservoir, Karnataka: A Gender Analysis, FAO Fisheries and Aquaculture Proceedings No. 61. Rome, FAO. eds Johnson, J., De Young, C., Bahri, T., Soto, D. & Virapat, C. pp: 47-54.
4. **Arpita Sharma**, G. Krishna and B.K. Mohapatra (2019) Capacity Building of Stakeholders to Integrate Fisheries and Aquaculture in Emergency Response and Preparedness: A Case Study from India, FAO Fisheries and Aquaculture Proceedings No. 61. Rome, FAO. eds Johnson, J., De Young, C., Bahri, T., Soto, D. & Virapat, C. pp: 169-171
5. A. Ghosh, **Arpita Sharma** and S. S. Dana (2019) Climate Change Initiatives for Fishing Communities in the Indian Sundarbans by Non-governmental Organizations, FAO Fisheries and Aquaculture Proceedings No. 61. Rome, FAO. eds Johnson, J., De Young, C., Bahri, T., Soto, D. & Virapat, C. pp: 172-177
6. Meryl J. Williams, Angela Lentisco, Mary Barby Badayos-Jover, Carmen Pedroza-Gutiérrez, Kalpana Giri, Susana Siar, N. Gopal, B. Shanthi, Alice Joan G. Ferrer, Marieta Bañez Sumagaysay and **Arpita Sharma** (2019) Gender as the Missing Link for Improving Climate Change Adaptation in Fisheries and Aquaculture, FAO Fisheries and Aquaculture Proceedings No. 61. Rome, FAO. eds Johnson, J., De Young, C., Bahri, T., Soto, D. & Virapat, C. pp: 196-209

On going Projects

Externally funded

1. Swachhtha Action Plan: Commercial Utilisation of Fish Waste in Fish Markets of Urban Locations, ICAR, New Delhi
2. Consultancy Project: Investigation on Ecological status, Conservation and Enhancement of Fisheries in Sardar Sarovar Reservoir, Maharashtra, Department of Fisheries, Maharashtra
3. Kisan Sarathi 2.0: Enhancement, Operations, Maintenance and Support, ICAR, New Delhi
4. National Scientific and Technological Survey on Resources Devoted to Research and Development Institutions in Agriculture

Completed Projects as Principal Investigator

Institute funded

1. Evaluation of Ergonomical and Socio-economical Problems of Women Engaged in Prawn peeling
2. Fisherwomen and Livelihoods – An Ergonomics Perspective
3. Conceptualization of a Working Model of a Women Fisher Co-operative in West Bengal
4. Empirical Study of Patents in Fisheries Sector
5. Documentation of Indigenous Technical Knowledge (ITK) in Fisheries Sector
6. Documentation of Endogenous Grassroots Innovations in Fisheries Sector and Facilitation of Patents
7. Capacity building of Stakeholders to Integrate Fisheries and Aquaculture in Emergency Response and Preparedness
8. Percolation Tank Based Aquaculture for Tribals in Nashik District, Maharashtra by Convergence of Corporate Social Responsibility Model
9. India's Patented Technological Innovations in Fisheries and Aquaculture

Externally funded

1. Occupational Workload of Women in Different Occupations funded by University Grants Commission, New Delhi
2. Quality of living Indices funded by University Grants Commission, New Delhi
3. Socio-Economics & Fisheries of Maharashtra (Consultancy Project) funded by Co-operative Assistance and Relief Everywhere (CARE), India
4. Production Possibilities of Fish Products from Low Cost Fish in Coastal Villages funded by Technology Information and Forecast Assessment Council (TIFAC), New Delhi
5. Assessment of Literacy and Health status of Fishing Communities (Network Project) funded by Ministry of Rural Development, New Delhi
6. Livelihood and Biological Studies of Gulf of Khambatt funded by Ministry of Earth and Sciences, New Delhi
7. Capacity Development of Fisherwomen of India funded by ICAR, New Delhi
8. Appraisal of National Rural Employment Guarantee Scheme (NREGS) funded by UNDP and Ministry of Rural Development, New Delhi

OTHERS

MOBILE APPs DEVELOPED

1. Matsyakiran: Mobile app for fish farmers of Telangana, India

500 + downloads available at

<https://play.google.com/store/apps/details?id=com.cife.mathsyakiran.mathsyakiran> and <https://androidappsapk.co/detail-mathsya-kiran/>

Developers: Kiranmay D., **Arpita Sharma** and others

Technology Certificate from SMD Extension, ICAR, New Delhi

2. Aquasafe: Mobile app for Occupational Safety and Health in Aquaculture

Developers: Lissandara Cavalli, **Arpita Sharma** and others

INTELLECTUAL PROPERTY RIGHTS

Copyrights granted by the Indian Copyright Office: 6

1. S. Ninan and **Arpita Sharma** (2005) Stakeholder Perception of Patenting Activities in Fisheries and Aquaculture, Copyright granted by Indian Copyright Office Diary Number 296/05-CCL
2. B. Debnath, **Arpita Sharma** and N. Devi (2013) ITK Appropriateness Scale copyright granted by the Registrar of Copyrights, Copyright Office, Diary Number Registration Number L-53010/2013 dated 30.8.13
3. B. Yadav and **Arpita Sharma** (2019) Tool for the Study of Gender Analysis of Ornamental Fish Enterprises, Copyright granted by Copyright Office, Government of India, Registration Number: L87343/2019
4. **Arpita Sharma** (2022) Gender Analysis Tool For Fisheries And Aquaculture (GATFA) Registration Number: L111-574/2-2022 1/2/22
5. Md. Meharoof, V.K Yadav, **Arpita Sharma** and S.N. Ojha (2024) Fish Culture Area Mapping. Efficient Ranching Assessment, and Change Detection for Reservoirs (FISH CAMERA-CDR) Framework, Registration Number L-141291/2024 and ITMU No. 22E/PD/0080. Certified by SMD Fisheries, ICAR, New Delhi
6. V. K Yadav, L. Paul, V. S. Bharti, A. Deo and **Arpita Sharma** (2024) VISTA: Vision and Intelligence for Shrimp Transmissible Abnormalities, Registration No. L-154940/2024

Copyrights applied in the Indian Copyright Office: 3

1. Vinod Kumar Yadav, Mahesh Sharma, Vidya Shree Bharti, Ashutosh Deo and **Arpita Sharma** (2026) AID-SHRIMP: AI-Driven Shrimp Health and Reflex Integrated Monitoring Platform, Literary, Diary Number: LD-6590/2026-CO, Status: Scrutiny (Application is in process), Applied on 12/2/26
2. **Arpita Sharma**, Nishant Kumar, Anshu Surin, Shubham Soni, Vijendra Kumar, Vidya Shree Bharti, Vinod Kumar Yadav and Swadesh Prakash (2026) Methodological Model of Multidimensional Risk Perception and Knowledge –Attitude-Practice for Heavy Metals in Water Bodies (2026) Literary, Diary Number: LD-12181/2026-CO, Status: Waiting, Applied on 17/3/26
3. Vinod Kumar Yadav, **Arpita Sharma**, Mohammed Meharoof (2026) REVIVE: Reservoir Ecosystem Valuation and Integrated Vision for Evaluation Framework Literary, Diary Number: LD-12815/2026-CO, Status: Waiting, Applied on 20/3/26

Trademarks granted: 2

FishANUre®: Organic Manure from Fish Waste

1. Application Number: 6392165, Class: 01, Style: Word, Date of application: 17/4/24

2. Application Number: 6392166, Class: 01, Style: Device, Date of application: 17/4/24

Developers: **Arpita Sharma**, Anurag Singh, M. Xavier, S. Soni and V.S. Bharti

This technology of FishANUre has been certified by SMD Fisheries, ICAR, New Delhi and commercialised/licensed to two parties i.) FISHCOPFED, Patna, Bihar and ii.) CARDION, Nashik. CIFE Technology No. 23F/PD/0102

Trademarks applied: 1

CIFE Fish Leather ™ : Leather from Discarded Fish Skin

1. Application Number: 7130575, Class: 18 Style: Word, Applied on: 21/07/2025

Status: Formalities check pass

Developers: Shubam Soni, **Arpita Sharma** and Martin Xavier

Patents granted by Indian Patent Office: 3

1. Fish Drying Rack, Date of Grant: 4.12.19, Inventors: B.B. Nayak, A. Ghag and **Arpita Sharma**. This fish drying rack has been transferred to Arnala Fisheries Cooperative Society, Thane, Maharashtra.

2. Catfish Hatchery and Rearing of Seed Under Three Tier System, Date of grant: 19.1.23, Inventors: C.S. Chaturvedi, W.S. Lakra, **Arpita Sharma**. This technology has been commercialised to 2 parties i.) COFFED, Patna, Bihar and ii.) Progressive Fish Farmer from Pratapgarh, India

3. Leather Fabric and a Process for its Preparation, Date of grant: 27.2.26, Inventors: S. Soni, **Arpita Sharma** and M. Xavier