



## PROFILE

The Department of Fisheries at the Faculty of Science, University of Jaffna, Sri Lanka is dedicated to research and education in Fisheries Science. Offering undergraduate and postgraduate programs, it focuses on sustainable fisheries management and conservation. Through research, education, and community outreach, the department plays a crucial role in advancing knowledge and promoting the well-being of coastal communities in Sri Lanka.

## CONTACT

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## HEAD OF THE DEPARTMENT



Snr. Prof. (Mrs.) S. Kuganathan  
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Phone number: +94 77 400 6669

# DEPARTMENT OF FISHERIES

## UNIVERSITY OF JAFFNA, SRI LANKA

### UNIVERSITY OF JAFFNA

The University of Jaffna was established in 1974 with the vision to be a leading center of excellence in teaching, research and scholarship. The Mission of the Jaffna University is to be a leading center of academic excellence in producing intellectual, professionally competent and capable graduates by providing quality teaching, learning, and carrying out research to meet the emerging needs of the national and international community with special emphasis on the social, economic and cultural needs of Northern Sri Lanka. The Parameshwara College premises, Thirunelvely was declared as the nucleus to establish the Jaffna Campus of the University of Sri Lanka in 1974. The academic and administrative activities of the university are governed by the Universities Act. No. 16 of 1978., as last amended by Act No 1 of 1995. The University of Jaffna with ten (10) Faculties is headed by the Vice-Chancellor. Of the ten faculties, the Science Faculty has seven (07) Departments, including the Department of Fisheries.

### HISTROY

The history of the Department of Fisheries (DoF) traces back to its origins as the Centre for Development of Fisheries, founded in 1998 with the primary objective of offering a Diploma in Fisheries Science. Initially focused on capacity development within fishing communities, the department underwent significant evolution. In 2007, with approvals from the University and UGC, it transitioned into the Department of Fisheries, formally established in June 2009, as evidenced by a Gazette notification dated June 5th, 2009. Subsequently, Fisheries Science became a principal subject for Bachelor of Science (General and Honours) degrees, commencing from the Academic year 2009/10.

### PROGRAMS OFFERED

Program	Duration	Offered By	Faculty
Diploma in Fisheries Science	Two years	Department of Fisheries	
B.Sc (General Degree)	Three years	Department of Fisheries, Botany, Zoology and Chemistry	Science
B.Sc (Honours Degree)	Four years	Department of Fisheries, Botany, Zoology and Chemistry	Science
M.Phil in Fisheries Science	Two years	Department of Fisheries	Graduate Studies

## STAFFS

### ACADEMIC STAFF



Snr. Professor. **Sivashanthini**  
Kuganathan  
B.Sc (UOJ, SL), M.Sc (UCNW, UK) and  
PhD (AU, IND)  
**Senior Professor (Chair) & Head**  
*Specialised in Fish biology, Fisheries and  
Aquaculture*



Mrs. **Sutharshiny** Sathyaruban  
B.Sc (UOJ, SL), M.Phil (UOJ, SL)  
and PhD (reading, USJP, SL)  
**Senior Lecturer (Gr-II)**  
*Specialised in Bio chemistry, Fish  
feed and nutrient and Aquaculture*



Dr. **Gunaan** Kuddithamby  
B.Sc (UOR, SL), M.Sc (UCNW, ITL)  
and PhD (DTU, DM)  
**Senior Lecturer (Gr-II)**  
*Specialised in Oceanography, Marine  
toxicology and Biostatistics*



Mr. **Ragavan** Nadarajah  
B.Sc (UOJ, SL), M.Sc (USJP, SL) and  
PhD (reading, USJP, SL)  
**Lecturer (Prob)**  
*Specialised in stock assessment,  
Fisheries management and socio  
economics*



Mrs. **Shobiya** Gobiraj  
B.Sc (UOJ, SL) and M.Phil (UOJ, SL)  
**Senior Lecturer (Gr-II)**  
*Specialised in Marine pollution and  
Marine toxicology*



Mrs. **Thapeetha** Arudselven  
B.Sc (UOJ, SL)  
**Lecturer (Prob)**  
*Specialised in Post harvest  
techniques, and Bio technology*

### NON-ACADEMIC STAFFS



Mr. Khalingarajah **Harichandra**  
B.Sc (OUSL, SL)  
Technical officer



Mr. Thavarajah **Partheepan**  
B.Sc (UOJ, SL)  
Technical officer



Ms. Mohamud Aththar **Niroshna**  
Lab Attendant



Mr. Navaratnam **Vijitharan**  
Lab Attendant



Mrs. **Janany** Roshanth  
Management Assistant



Mr. Kugathanam **Sopikaran**  
Office Assistant

## **INFRASTRUCTURE FACILITIES**



Lecture hall



General degree laboratory



Research lab-01 Advanced Lab



Research lab-02 Biotechnology lab



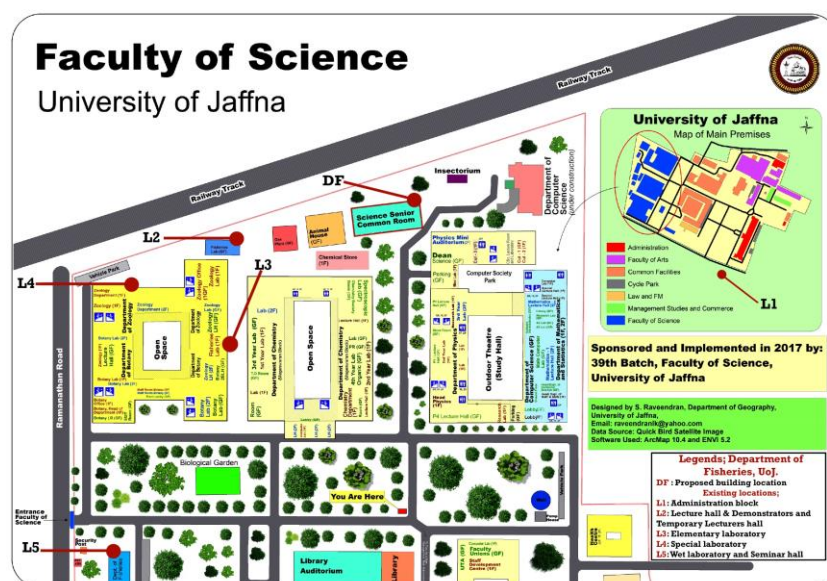
Office



Wet Laboratory

**Note:** We are currently dispersed across various locations due to limited infrastructure, as our department is newly established within the faculty. However, we are actively seeking grants to construct dedicated buildings for our department. The university has already allocated and approved land for this purpose

## STRATEGIC LOCATION



## SUBJECTS AND DOMAINS OFFERED

Our teaching and research activities, driven by multidisciplinary courses, aim to equip graduates with a broad knowledge base and critical thinking skills. Through their theoretical knowledge and analytical skills gained from these courses, graduates are prepared to address emerging issues in the fisheries sector. Ultimately, our goal is to contribute to the development of sustainable fisheries and ecosystem management in Sri Lanka through the efforts of our graduates.

### Major subject domains offered in our curriculum

Fish and Shellfish Biology	Oceanography and Limnology
Fisheries and Fisheries Management	Aquaculture
Marine Pollution and Toxicology	Post-harvest Techniques and HACCP
Fisheries Economics and Marketing	Socioeconomics
Biochemistry and Laboratory techniques	Microbiology and Biotechnology

## GRADUATES

Programme	Period	Graduates
Diploma in Fisheries Science	1998-2008	480 (8 batches)
B.Sc in Biological Science	2009-Todate	430 (11 batches)
B.Sc (Honours in Fisheries Science)	2009-Todate	50 (10 batches)
M.Phil students	2009-Todate	11

## **FOREIGN TRAINING**

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Our department facilitates scholarships for top-performing undergraduate and M.Phil. students through our MoU agreements. Since 2018, five undergraduates have received full scholarships to follow six months UNESCO-GRO fisheries training programme in Iceland.

Eight M.Phil. students have been awarded scholarships to attend a five-month coursework program at Tromso University, Norway, under the NOR\_LANKA Blue project since 2019.

## **RESEARCH GRANTS**

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Our department's staff have been awarded a 22 research grants to conduct multidisciplinary research in fisheries and marine-related sectors, with the aim of developing sustainable fisheries, environmental management, and enhancing community livelihoods. Additionally, grants have been allocated for their studies, publications, and travel, reflecting our dedication to academic advancement and impactful contributions in these fields.

*Note: For more information, please refer to Annexure I*

## **AWARDS AND FELLOWSHIPS**

Our esteemed staff members have received 23 awards in recognition of their outstanding contributions to research and innovation within the field of fisheries and science

*Note: For more information, please refer to Annexure II*

## **RESEARCH PUBLICATION**

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Our academic staff have disseminated their knowledge and scientific findings to both academic and local communities through various channels. Their published articles encompass summaries as books, book chapters, SCI-indexed research papers, Scopus research articles, other peer-reviewed papers, conference full papers, abstracts, and magazine articles. The total publications are summarized below;

Books	: 09
Book chapters	: 02
Peer-reviewed Journal articles	: 69
Abstracts	: 93
Short communication	: 05
Articles	: 09

*Note: For more information, please refer to Annexure III*

## **COMMUNITY CAPACITY DEVELOPMENT PROGRAMMES**

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As an integral aspect of our academic pursuits, our department actively participates in community development initiatives. These programs are primarily focused on empowering fishing communities by imparting scientific knowledge and fostering skill development to broaden their livelihood opportunities, thereby increasing resilience to future challenges. In addition, we organize beach cleaning campaigns to promote environmental health. Furthermore, we enhance student skills through webinars and expert talks, enriching their academic experience

## **ENVIRONMENTAL MONITORING AND IMPACT ASSESSMENT**

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Our department conducts ongoing monitoring of marine environments and fisheries ecosystems, involving undergraduate and postgraduate students in field visits and research activities. Key focus areas include the shrimp fishery in the Jaffna Peninsula, beach pollution analysis, and climate change impacts assessed through satellite and in-situ monitoring. Additionally, we analyze primary productivity and plankton diversity. This monitoring effort enables us to issue precautionary warnings based on evidence from research and monitoring, including alerts for harmful algal blooms, fishing mortalities, invasive species, and overfishing, thus safeguarding fishers, tourists, and the local economy.

## **INSTITUTIONAL COLLABORATION**

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Our department collaborates locally and internationally to train students and enhance the capacity of our staff members. We partner with institutions like the University of Tromsø to conduct research aimed at advancing the blue economy through our M.Phil. candidates. Additionally, our collaboration with GRO-FTP in Iceland enables our staff and high-performing students to undergo a six-month advanced fisheries training program, addressing fisheries issues and fostering development in Sri Lanka. Moreover, we work closely with Annamalai University to support research and teaching-learning activities for undergraduate students.

Locally, we collaborate with key organizations such as the National Aquatic Resources Research and Development Agency (NARA), the National Aquaculture Development Authority (NAQDA), and the Department of Fisheries and Aquatic Resources (DFAR) on research programs, consultancy services, and student training initiatives aimed at contributing to national development. In addition to collaborating with local government institutions, we partner with fisheries industries, including aquaculture farms and seafood processing centers, to facilitate student training and knowledge transfer programs.

## **STRATEGIC MILESTONES**

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2025: Find grants for a four-story departmental building

2028: Reintroduce the Diploma as Coastal Aquaculture for fishing communities

2030: Introduce two applied science programmes on

- i. Sustainable Ocean and Aquaculture Management program
- ii. Ocean Science and Marine Conservation

## **ENDORSEMENT FROM THE DEPARTMENT HEAD**

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As the head of the department, I wholeheartedly endorse and support our institution's commitment to excellence in fisheries science education, research, and community engagement. We are dedicated to nurturing the next generation of leaders in the field and advancing knowledge that contributes to the sustainable management of aquatic resources. With our focus on innovation, collaboration, and impactful initiatives, we strive to make meaningful contributions to the well-being of coastal communities and the conservation of marine ecosystems.

Furthermore, I confirm that all the information provided is accurate and up-to-date. We take pride in our commitment to transparency and integrity in representing our department's achievements, initiatives, and future plans.



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Signature

15.05.2024

Date

## ANNEXTURE - I

### RESEARCH GRANT

#### Prof. Mrs.Sivashanthini Kuganathan

1. Principal - investigator of the research project titled “Fishes of the Jaffna lagoon”. Financially supported by University of Jaffna in 1998: Completed successfully (Research station: University of Jaffna). (Amount 25000/=).
2. Co-investigator of the research project titled “Status and taxonomy of Herpetofauna and their conservation in Jaffna peninsula” since February 2006, financially supported by National Science Foundation of Sri Lanka [RG/2003/ZOO/07]: Completed successfully. (Research station: University of Jaffna). (Amount 4,37,540/=).
3. "Principal investigator for the research project “Lipid deposition and depletion in relation to sexual maturity and spawning in Scomberoids lysan (Carangidae)” funded by National Research Council, Colombo, Sri Lanka [grant No: 07-19]. (Research station: University of Jaffna). (Amount 2,309,000/=).
4. Principal - investigator of the research project titled “Systematics and population dynamics of squids from the northern coastal waters of Sri Lanka”. Financially supported by National Science Foundation of Sri Lanka [RG/2006/MS/01]: Completed successfully. (Research station: University of Jaffna). (Amount 15,54,720/=).
5. Principal - investigator of the research project titled “Reproductive biology of Gerres oblongus from the Jaffna lagoon”. Financially supported by Faculty of Graduate Studies research grant, University of Jaffna: Completed successfully. (Research station: University of Jaffna). (Amount 84,500/=).
6. Principal – investigator of the research project titled “Potential for sea cucumber culture form the Jaffna lagoon”. Financially supported by IUCN- MFF [MFF/98]. Completed successfully. [Research station: University of Jaffna]. (Amount 1413830/=).
7. Principal – investigator of the research project titled “Diversity and the antimicrobial activity of sea grasses in the coastal region of Jaffna Peninsula”. Financially supported by University research grant – 2014 (URG/2014/SEIT/03). Completed successfully. [Research station: University of Jaffna]. (Amount 493,150/=).
8. Principal – investigator of the research project titled “Mapping of ponds / waterholes and restoration of a selected pond at the Delft Island”. Financially supported by IUCN- MFF [MFF/07]. Completed successfully. [Research station: University of Jaffna]. (Amount 24,31,334/=).
9. Principal – investigator of the research project titled “Assessing the quality and quantity of coral DNA by conventional agarose gel electrophoresis method”. Financially supported by University research grant – 2018 (URG/2018/SEIT/01). Completed successfully. [Research station: University of Jaffna]. (Amount 800,000/=).
10. Principal – investigator of the research project titled “Identification of cryptic sea cucumber species in Northern Province using DNA barcoding”. Financially supported by University research grant – 2019 (URG/2019/SEIT/25). Work in Progress. [Research station: University of Jaffna]. (Amount 800,000/=).



### **Sutharshiny Sathyaruban**

1. Principal - investigator of the research project titled “Evaluation of shelf life for commercially important food fishes and shell fishes in the Jaffna Peninsula during ice storage (Research station: University of Jaffna: URG/2015/01). (Amount 500,040/=). (Completed)
2. Principal investigator of the research project titled “Effect of natural carotenoid for enhancing colouration and growth in goldfish (*Carassius auratus*)” (URG/2018/SEIT/02) (Amount 800,000/=) (Completed)
3. "Principal Investigator of the research titled “A comparative study on isolation of DNA
4. from fin, scale and tissues of cryptic ornamental fishes in Jaffna Peninsula”
5. (URG/2019/SEIT/22) (Amount 900,000/=). Completed"
6. Principal Investigator of the research titled “Formulation of practical diets for swordtails *Xiphophorus helleri* (Poeciliidae) for growth and colour optimization using mathematical modelling” (URG/2021/SEIT/30) (Amount 797,000 /=) Completed.
7. Principal Investigator of the research titled “Enhancing the skin colouration of ornamental fishes using palmyrah fruit” (AHEAD/RA3/UBL/JFN/OVAA/23) (Amount 91,500/=) in progress
8. "Financial assistance by UGC for PhD studies titled “Efficiency of skin colouration, immune response and growth in Guppy, swordtail and platyfish species fed with
9. locally formulated diet using palmyrah fruit pulp, seaweed and shrimp shells” amounting Rs. 2,767,642.28 in 2021 (in Progress) [1.6e(vi)]

### **Kuddithamby Gunaalan**

1. Principal - investigator of the research project titled “Water quality (Research station: University of Jaffna: URG/2015/01). (Amount 800,040/=). (Completed)

### **Nadarajah Ragavan**

1. Principal - investigator of the research project titled “Quantitative and qualitative assessment of genomic DNA extracted from cryptic *Sardinella* species: PCR optimization” (Research station: University of Jaffna: URG/2021/SEIT/25). (Amount 806,200/=). (Completed)

### **Khalingarajah Harichandra**

1. University Business Linkage (UBL) competitive research grant amounting to 100,000.00 LKR from the University of Jaffna for developing a "smart faucet.( AHEAD/RA3/UBL/JFN/OVAA/01)"

## ANNEXTURE - II

### AWARDS AND FELLOWSHIP

#### **Prof. Mrs.Sivashanthini Kuganathan**

1. Awarded a KORDI – UNU International Fellowship to attend two weeks training on Passive air sampling: long range transport of pollutants.
2. Awarded MoES, CSIR New Delhi and TNSCST Chennai fellowship to visit PG & Research
3. Department of Zoology, Government Arts College (Autonomous), Kumbakonam – 612 001, Tamil Nadu, India and to attend International workshop on fish taxonomy from 21st – 23rd March 2012
4. SUSRED award – 2012, under Support Scheme for Supervision of Research Degree in recognition of the supervision of M.Phil titled “Population dynamics of *Sepioteuthis lessoniana* (Cephalopoda: Loliginidae) from the Jaffna lagoon” by the National Science Foundation, Colombo
5. Susred award-2014, under Support Scheme for Supervision of Research Degree (SUSRED) in
6. recognition of the supervision of M.Phil titled “Reproductive characteristics of *Scomberoides lysan* (Forsskal, 1775) (Pisces: Carangidae) from the waters around Jaffna Peninsula, Sri Lanka” by the National Science Foundation, Colombo on the 23rd day of December 2014.
7. Susred award 2014, under Support Scheme for Supervision of Research Degree (SUSRED) in
8. recognition of the supervision of M.Phil titled “Lipid changes in relation to sexual maturity and spawning in *Scomberoides lysan* (Carangidae) from waters around the Jaffna peninsula, Sri Lanka” by the National Science Foundation, Colombo on the 23rd day of December 2014.
9. Long service award by University of Jaffna – 2019

#### **Sutharshiny Sathyaruban**

1. "UNU – UNESCO International Fellowship to attend two weeks training programme on mangrove biodiversity at Annamalai University, India in 2015."
2. THE IOC/IODE/OCEANTEACHER GLOBAL ACADEMY: OTGA-INOS/UMT Training Course: Foundations of Coastal and Marine Spatial Planning: 18 - 22 November 2018, Kuala Terengganu, Malaysia.
4. Best oral presentation award – first runner up – Virtual 13 th AFAF – 2 nd June 2022.
5. PhD mobility training fellowship at UiT, Norway under NORPART Project - 2022

### **Gunaalan Kuddithamby**

1. PhD Scholarship by Technical University of Denmark 2020-2023
2. Water and Society (WaSo) Fellowship for “Water and Wastewater Management”, A summer school from 18/06/2017 to 07/07/2017 at Norwegian University of Life Sciences (NMBU) and The University Centre in Svalbard (UNIS), Norway 2011).
3. Erasmus Mundus Joint Master Degree Scholarship for M.Sc. in Water and Coastal Management 2018-2020.
4. Commonwealth scholarship 2018 (DENIED) Commonwealth Reference: LKCS-2018-667
5. “Identification of Health Risk Level Due to Consumption of Groundwater contaminated with Nitrate-N in Jaffna Peninsula: Special Reference to Oesophageal and Stomach Cancers” Supervisors: Dr. (Mrs).H.B.Asanthi, Prof.(Mrs). Thushyanthy. M and Prof. T.P.D.Gamage.

### **Ragavan Nadarajah**

1. Fellow, Fishery Oceanography for UN Ocean Decade (F.O.O.D) course conducted by the Indian National Centre for Ocean Information Services (INCOIS) in Hyderabad, India under Indian Technical and Economic Cooperation Programme (ITEC), Ministry of External Affairs, Government of India

### **Khalingarajah Harichandra**

1. Gold Medal in 8th International Invention Innovation Competition in Canada, iCAN 2023 on 26th August, 2023 conducted by Toronto International Society of Innovation & Advanced Skills (Tisias) Toronto, On, Canada. for developing a "smart faucet v2.0."
2. Gold Medal in the Island-wide Invention and Innovation Competition titled "SAHASAK NIMAVUM-2020" for an "automated hand washing station" under the 'public works and infrastructure engineering' subcategory of University and Tertiary Educational Institutes in the year 2020.
3. National Intellectual Property Office of Sri Lanka under the provisions of Code of intellectual property Act no 52 of 1979. An automated faucet with an integral liquid washing dispenser for regulated handwashing (Patent No: 21588- 2022.06.21) International Patent Classification (IPC): E 03C1/05, F16K 31/02

## ANNEXTURE – III

### Peer-reviewed/ Journal

- Sutharshiny, S., Deepthi, I.U., Sivapriya, S., Prasanthan, R. and K Sivashanthini. (2024). Effect of an experimental diet enriched with palmyrah fruit on the immune challenge in guppy fish. 12th YSF Symposium. 12(1). 134-139.
- Ragavan, N., Kuganathan, S. and Dissanayake, D.C.T. 2024. Effects of juvenile mortality on population dynamics of *Penaeus semisulcatus*: Fisheries Research, 274 (106991). DOI: <https://doi.org/10.1016/j.fishres.2024.106991>.
- Usgoda. M.S., **Gobiraj,S** and Sivashanthini.K., 2024. Recreational water quality status of Charty Beach, Jaffna, Sri Lanka. *Advances in Technology*,3(2), pp.124-134. <https://doi.org/10.31357/ait.v3i2.7338>
- Ebbesen, L.G., Strange, M.V., Gunaalan, K., Paulsen, M.L., Herrera, A., Nielsen, T.G., Shashoua, Y., Lindegren, M., Almeda, R., 2024. Do weathered microplastics impact the planktonic community? A mesocosm approach in the Baltic Sea. *Water Research* 255, 121500. <https://doi.org/10.1016/j.watres.2024.121500>
- Gunaalan, K., Almeda, R., Vianello, A., Lorenz, C., Iordachescu, L., Papacharalampos, K., Nielsen, T.G., Vollertsen, J., 2024. Does water column stratification influence the vertical distribution of microplastics? *Environmental Pollution* 340, 122865. <https://doi.org/10.1016/j.envpol.2023.122865>
- Almeda, R., Gunaalan, K., Alonso-López, O., Vilas, A., Clérandeau, C., Loisel, T., Nielsen, T.G., Cachot, J., Beiras, R., 2023. A protocol for lixiviation of micronized plastics for aquatic toxicity testing. *Chemosphere* 333, 138894. <https://doi.org/10.1016/j.chemosphere.2023.138894>
- Gunaalan, K., Almeda, R., Lorenz, C., Vianello, A., Iordachescu, L., Papacharalampos, K., Rohde Kjaer, C.M., Vollertsen, J., Nielsen, T.G., 2023a. Abundance and distribution of microplastics in surface waters of the Kattegat/ Skagerrak (Denmark). *Environmental Pollution* 318, 120853. <https://doi.org/10.1016/j.envpol.2022.120853>
- Gunaalan, K., Nielsen, T.G., Rodríguez Torres, R., Lorenz, C., Vianello, A., Andersen, C.A., Vollertsen, J., Almeda, R., 2023b. Is Zooplankton an Entry Point of Microplastics into the Marine Food Web? *Environ. Sci. Technol.* 57, 11643–11655. <https://doi.org/10.1021/acs.est.3c02575>
- Saruga, K., Sivashanthini, K. and Sutharshiny, S., 2023. Analysis of nutritive value of indigenous livestock feed ingredients in Sri Lanka. *Sri Lanka Journal of Multidisciplinary Research*, 1(1), pp.56-66
- Arudselven, T., Kirisanth, S., Sivanantham, U., Krishnamoorthy, S., Ragavan, N., Krishnapillai, N., Gobiraj, S., Harichandra, K., Kuganathan, S. and Sathyaruban, S., 2023. Mass Accumulation of Macrophytes along the Northern and Eastern Coasts of Sri Lanka-A Case Study. *Vingnanam Journal of Science*, Vol. 18 (2), 35-38.

- Kuganathan, S., Krishnamoorthy, S., Sivanantham, U., Krishnapillai, N., Harichandra, K. and Sathyaruban, S., 2023. First record of *Trichodesmium Erythraeum Ehrenberg ex Gomont* (Cyanobacteria) in the Coastal Waters of Kankesanthurai, Northern Sri Lanka. *Thalassas: An International Journal of Marine Sciences*, 39(2), pp.495-507.
- Sutharshiny, S., Deepthi Inoka, U., Sivashanthini, K., Harichandra, K. and Partheepan, T., 2022. Grouping the Potential Local Feed Ingredients for Ornamental Fish Feed based on their Nutrient Composition, Cost, and Availability. *Adv. Technol.* 2022, 2(2), 131-138.
- Saruga, K and Sivashanthini, K (2022). Evaluation of culture condition of *Azolla pinnata*, 10th Young Scientist Forum (YSF) symposium, 18.03.2022 (accepted). Pp 144-148.
- Arulananthan, A.; Herath, V.; Kuganathan, S.; Upasanta, A.; Harishchandra, A. The Status of the Coral Reefs of the Jaffna Peninsula (Northern Sri Lanka), with 36 Coral Species New to Sri Lanka Confirmed by DNA Bar-Coding. *Oceans* 2021, 2, 509-529. <https://doi.org/10.3390/oceans2030029>
- Sutharshiny, S., Deepthi Inoka, U., Shivatharsiny, Y. and Sivashanthini, K. (2021) 'Potential natural carotenoid sources for the colouration of ornamental fish: a review', *Aquaculture International*. doi: 10.1007/s10499-021-00689-3
- Capolupo, M., Gunaalan, K., Booth, A.M., Sørensen, L., Valbonesi, P., Fabbri, E., 2021. The sub-lethal impact of plastic and tire rubber leachates on the Mediterranean mussel *Mytilus galloprovincialis*. *Environmental Pollution* 283, 117081. <https://doi.org/10.1016/j.envpol.2021.117081>
- Sutharshiny, S., Shobana, C. and Sivashanthini, K. (2021) 'Determination of freshness quality changes using selective methods: A comparative study for eclipse parrotfish (*Scarus russelii*) and spangled emperor (*Lethrinus nebulosus*)', *Iranian Journal of Fisheries Sciences*, 20(1), pp. 243–253. doi: 10.22092/ijfs.2021.123555
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- Patrick, A.E.S., Kuganathan, S. and Edirisinghe, U. (2021) 'Length-Weight Relationships and Growth Patterns of Local Fishes of the Medium Perennial Vavuniya Reservoir, Sri Lanka', *Pakistan Journal of Zoology*, pp. 1–9. <https://dx.doi.org/10.17582/journal.pjz/20181106161128>
- Nilakshana, K., Shobiya, P., Dilini, J., Ragavan, N., Sivashanthini, K. and Sutharshiny, S., 2021. Contribution of Women in Fisheries and Fishery Related Activities in Ponnalai, Jaffna, Sri Lanka. *Vingnanam Journal of Science*, 16(1), p.16
- Gobiraj, R., Shobiya, P., and Sivashanthini, K (2020). Keeping fish as pets: perceptions from fish owners in Nallur, Jaffna, Sri Lanka, *Proceeding of the Open University Research Sessions, The Open University of Sri Lanka*. pp21.
- Thapeetha, Y., Digamadulla, K.S., Sashikesh, G. and Sivashanthini, K., 2020. Determination of chitin content in shells of selected crab species available in Jaffna. *Vingnanam Journal of Science*, 15(1), pp. 15 - 18.

- Gunaalan, K., Fabbri, E., Capolupo, M., 2020. The hidden threat of plastic leachates: A critical review on their impacts on aquatic organisms. *Water Research*. 184, 116170. <https://doi.org/10.1016/j.watres.2020.116170>
- Warnasuriya, T., Gunaalan, K. and Gunasekara, S. (2018). Google Earth: A New Resource for Shoreline Change Estimation—Case Study from Jaffna Peninsula, Sri Lanka. *Marine Geodesy*, 41(6), pp.546-580.
- Vithursha, T., Sivashanthini, K. and Gunaalan, K., 2020. Economic Loss of Northern Fishers due to the Poaching Activities of Indian Trawlers. *Vingnanam Journal of Science*, 14(2), pp. 27
- Shobiya, P., Sivashanthini, K., Sutharshiny, S., Saruga, S. and Gunaalan, K., 2020. Variations in Important Water Quality Parameters and Fish Species in Thondaimanaru Lagoon, Jaffna, Sri Lanka. *Vingnanam Journal of Science*, 14(2), pp 21 - 25.
- Saruga, S., Sivashanthini, K., Sutharshiny, S., Gunaalan, K. and Shobiya, P., 2020. Ecological Footprints for Aquaculture Possibility in Selected Mangrove Regions of Jaffna, Sri Lanka. *Vingnanam Journal of Science*, 14(2), pp. 15 - 19.
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