

**Dr. Elepathage Thushani Suleka Madhubhashini
(Ph.D.)**

I am a Ph.D. holder in environmental science and engineering and I have obtained my MSc in Disaster analysis, management, and mitigation. I have more than eight years of experience as a university lecturer in aquaculture, fisheries, and marine science. I have taught courses at both undergraduate and postgraduate levels. I have supervised several research students and I have published many articles in peer-reviewed indexed journals.

Skills

1. Remote sensing	4. Fisheries	7. Biology	10. Disaster management
2. GIS	5. Aquaculture	8. Limnology	11. Computer science
3. Statistics	6. Marine science	9. Climate science	12. Human resource management

Work Experience

MARCH 2014 – TO DATE

Senior lecturer / University of Peradeniya

deliver lectures, seminars, and tutorials; design, prepare and develop courses and teaching materials; develop and implement new methods of teaching to reflect changes in research; assess students' coursework; set and mark examinations; supervise students' research activities; participating administrative and volunteer work

SEPTEMBER 2013 – FEBRUARY 2014

Statistical scientist / National Buildings Research Organization

Apply statistical theories and methods to solve practical problems in environment researches, decide what data are needed to answer specific questions or problems, determine methods for finding or collecting data, design surveys or experiments to collect data, analyze and interpret data, report conclusions from their analyses.

JANUARY 2013 – SEPTEMBER 2013

Demonstrator / University of Ruhuna

Agree with the relevant lecturer what practical work is to be done and how the class should be conducted, prepare for the class by familiarizing themselves with any protocols or other information required, and ensuring that they have undertaken the relevant exercises and experiments themselves beforehand, conduct any demonstrations, to do so in such a way as to convey relevant information and outcomes clearly and accurately to students.

AUGUST 2012 – JANUARY 2013

Administrative Assistant / Department of Coast Conservation and Coastal Resource Management

Organize and schedule meetings and appointments; maintain contact lists; produce and distribute correspondence memos, letters, faxes, and forms; assist in the preparation of regularly scheduled reports; develop and maintain a filing system; submit and reconcile expense reports; research and create presentations; generate reports; handle multiple projects; contribute to team effort by accomplishing related results as needed; carry out administrative duties such as filing, typing, copying, binding, scanning, etc.; develop and update administrative systems to make them more efficient; resolve administrative problems.

Education

JANUARY 2020

Ph.D. (Environment Science and Engineering) / South China Sea Institute of Oceanology, University of Chinese Academy of Sciences, China

GPA- 3.8, Course work- Marine science, climate science, remote sensing, and GIS

Thesis: Environment regime impact on Black Marlin and Yellowfin tuna distribution in the Indian and Sri Lankan waters

JULY 2015

MSc (Disaster analysis, management, and mitigation) / University of Colombo, Sri Lanka

Merit pass, Course work- Climate, ocean, air, and land-related disasters' prevention and mitigation

Thesis: Analysis of climate change impacts on fisheries in Western Sri Lankan waters

NOVEMBER 2012

BSc (Fisheries and marine sciences & technology) (Hons.) / University of Ruhuna, Sri Lanka

First-class, Course work- Fisheries, aquaculture, marine science, geology, limnology, statistics, and related subjects

Thesis: Chlorophyll-a and sea surface temperature change effect on fisheries in Sri Lankan waters

Activities

Publications

1. Perera H L D, E.T.S. Madhubhashini, Nilwala N., Effect of Dietary Protein Level of dry pellet feed prepared with selected locally available ingredients on Mud Crab (*Scylla serrata*) fattening, FAuRS 2019, 16th July 2020
2. Witharana W K C., E.T.S. Madhubhashini, Kumara P B T P, Ranasinghe T, Soil spill cleaning in marine and freshwater environments: Application of expanded graphite (EG) and reduced graphene oxide (r GO), FAuRS 2019, 16th July 2020
3. Elepathage T S M & Tang, D. (2020). Relationships among SST Variability, Physical, and Biological Parameters in the Northeastern Indian Ocean. *Atmosphere-Ocean*, 1–14. <https://doi.org/10.1080/07055900.2020.1767028>
4. Rajakaruna, R. S., Nadeesa, M. G., Pemadasa, M., E.T.S. Madhubhashini, & Abeysundara, S. P. (2020). Fishers perceptions and practices and sea turtle bycatch in Sri Lanka, Indian Ocean Turtle Newsletter, <https://www.iotn.org/wp-content/uploads/2020/05/IOTN-31.pdf>
5. Elepathage T S M, Tang, D., & Oey, L. (2019). The Pelagic Habitat of Swordfish (*Xiphias gladius*) in the Changing Environment of the North Indian Ocean. *Sustainability*, 11(24), 7070. <https://doi.org/10.3390/su11247070>
6. E.T.S. Madhubhashini, Tang D. Hydro-Climatic Variations Analysis with Remote Sensing Data on Sri Lankan Ocean Waters, Scitechnology, June 2019. https://www.scitechnol.com/peer-review/hydroclimatic-variations-analysis-with-remote-sensing-data-on-sri-lankan-ocean-water-hUAF.php?article_id=9483.
7. E.T.S. Madhubhashini & Tang, D., Chlorophyll-a change and environment variables relationship in ocean around India and Sri Lanka, The 11th International Workshop on Modeling the Ocean, 17-20 June 2019, Wuxi, China
8. E.T.S. Madhubhashini & Tang, D., Hydro-climatic variations analysis with remote sensing data on Sri Lankan ocean waters. *Journal of Marine Biology & Oceanography*, 2018. (<https://doi.org/10.4172/2324-8661-C2-015>)
9. E.T.S. Madhubhashini, Tang D., WANG SU FEN, 2018, Abundance of marlins in relation to sea surface temperature in Sri Lankan ocean, *Journal of Nanjing University of Information Science &*

Technology(Natural Science Edition), 2018,10 (3). <http://www.cnki.com.cn/Article/CJFDTOTAL-NJXZ201803011.htm>

10. E.T.S. Madhubhashini, Tang D., Applicability of special area management in Madu river ecosystem, Sri Lanka, PACON International conference, 27-30th March 2017, Ocean College, Zhejiang University, China
11. Sutharsan K, Perera N, & E.T.S. Madhubhashini, Preliminary study of Mangrove biodiversity and economic value of mangroves in sampaltivu lagoon at Trincomalee district, FAuRS 2016
12. E.T.S. Madhubhashini, Climate change impacts on fisheries in Western Sri Lankan waters, Conference on Geospatial sciences & Disaster Management, 19th January 2016, Colombo, Sri Lanka
13. Hettiarachchi H H A D T, Athauda A R S B, E.T.S. Madhubhashini, Determination of conditions required for breeding of *Lepidocephalich thysthermalis* (Common Spiny Loach) under captive condition, FAuRS 2015
14. E.T.S. Madhubhashini, Determination of Physico-Chemical and sensory properties of fermented fish (Jaadi) during Bio-preservation period, 6th International conference and field study in Indonesia 2015, "Managing rural transition at urban fringe towards sustainability" (28th – 29th September 2015) IPB International convention center, Bogor, Indonesia
15. E.T.S. Madhubhashini, Determination and analysis of NH₃ absorption ability of *Terminalia catappa*(Kottamba) leaves,19th International Forestry andEnvironment symposium (24th – 25th October 2014)
16. E.T.S. Madhubhashini, Warnasuriya T W S., Economic valuation of Recreational and Ecological Resources of Madu ganga Estuary, 18th International Forestry andEnvironment symposium. 10th January 2014; <http://journals.sjp.ac.lk/index.php/fesympo/article/viewFile/1962/1066>
17. E.T.S. Madhubhashini, *Review on earth quake resilience of cripple walls braced by plywood*, 5th Annual Symposium at National Buildings Research Organization(19th December 2013)
18. Ratnasiri, J., Kumar, P B T P, Thilakarathne, E P D N., Warnasuriya, T W S., E.T.S. Madhubhashini, Edirisinghe, D.M.A., Madushanka, H.M.T.C *Final Report of the APN Funded Project on Coastal Ecosystems, Ecosystem Services & Changing Economic Activities at Koggala in Galle District, Sri Lanka*, University of Ruhuna, Matara. pp. 96.31st October 2013
19. E.T.S. Madhubhashini, Alahakoon N., Kumara P B T P *Abundance of Marlin (Makira sp.) in relation to remotely sensed sea surface temperature in Sri Lankan waters* (Proceedings of the Nineteenth sessions of the Sri Lanka Association for Fisheries and Aquatic Resources Development Agency, 16th May 2013)
20. E.T.S. Madhubhashini, Yapa K K A S., Alahakoon N., Kumara P B T P., *Potential fishing grounds of Yellow fin tuna and Skipjack tuna around Sri Lanka according to remote sensing, GIS and Fishery data*(10th Academic Session University of Ruhuna – 20th March 2013)
21. E.T.S. Madhubhashini, Yapa K K A S. and Alahakoon N., *Abundance of Skipjack and Yellow fin tuna species in relation to remotely sensed ocean colour and SST in Sri Lankan waters* (Oceans and Society: Blue Planet Kick-off Symposium- Ilhabela, Sao Paulo, Brazil, November 19-21, 2012); http://faro-project.org/blue_planet/documents/Abstracts_BluePlanet_low.pdf

Supervising research

1. In vitro study of antibacterial effects of selected plant extracts against bacterial pathogens of fish and shrimp
2. Immunostimulatory Effect of Coriander seed (*Coriandrum sativum*) Heen bovitiya leaf (*Osbeckia octandra*) and Hathawariya leaf (*Asparagus racemosus*) on koi carp.
3. Analysis of nutrient components in selected native fish species in Sri Lanka
4. Development of Masked Triggerfish (*Sufflamen fraenatum*) Fermented Product and determination of Physio-chemical, Microbial & Sensory Quality.
5. Knowledge about Threatened and Endangered Freshwater Fish Species in Sri Lanka among the University Students of Sri Lanka.

6. Preference of selecting ornamental fish culturing and the knowledge on it among the Sri Lankan people.
7. Awareness on consuming Inland table fishes among young generation in Sri Lanka.
8. Trend of substituting fish by meat and meat based products among young generation in Sri Lanka after the economic crisis in 2022.
9. Awareness & and consumption of Dried Fish Products among Youth in Sri Lanka
10. Knowledge regarding the importance of consuming fish products among University Students (University of Peradeniya).
11. Analysis of consumption of fish and fish related products among Sri Lankan university students.
12. The awareness about the ingredients of fish feed among Sri Lankans
13. Awareness of nutritional value of food fish among Sri Lankan university students.
14. Combating climate change impact for shrimp aquaculture in Sri Lanka
15. Awareness on ornamental fish industry among young generation
16. The impact of economic crisis of Sri Lanka in 2022 on the fishing industry and wellbeing of fishing community in Victoria reservoir
17. The Sea cucumber culture in Sri Lanka - Potential and awareness
18. The Awareness about the Ingredients of Fish Feed among Sri Lankan
19. Vannamei Shrimp Culture and Operational Practices in Chilaw Area(Ambakandawila GN Division)
20. Awareness of health benefits of tuna fish among university students
21. Rural consumer preference for inland fish and their substitutes in the dry zone of Sri Lanka
22. Awareness related to sea weed consumption among university students
23. Canned fish consumption pattern and its allergic reactions among students of University of Peradeniya
24. Willingness to keep pet fish among university students of University of Peradeniya
25. Effect of tourism to marine environment in Negombo, Sri Lanka
26. Awareness of the allergy conditions related to the consumption of sea food among people
27. Potential of using inland water reservoirs as a fish culturing areas to reduce malnutrition in rural areas
28. Assessment of water pollutant status of selected fishery harbors in the southern province of Sri Lanka
29. The social and economic effects of Marine and Inland Fish and Fisheries in Hambantota District
30. Sea food consumption, New trends in the global seafood market and potential of sea food production in Sri Lanka
31. Possibilities, challenges and assessment of sea urchin in offshore of Sri Lanka
32. GIFT *Thilapia* raise culture efficiency in Dambulla area in Sri Lanka
33. Probability of using aquatic plants over artificial decorations in aquariums in Sri Lanka
34. Knowledge about the Aquatic plants as a human food among University students in Sri Lanka
35. Growth Performance and Survival Rate of Catla (*Catla Catla*) Using Cost Effective Feeds

Supervised research projects

1. Hettiarachchi H.H.A.D.T. Determination of conditions required for breeding of *Lepidocephalichthys thermalis* (Common Spiny Loach) under captive condition.
2. Karthigesusutharsan, Preliminary study of Mangrove biodiversity and economic value of mangroves in sampaltivu lagoon at Trincomalee district.
3. Effect of expanded graphite sorbent for oil spill & water cleaning in marine & freshwater ecosystems (Research student- Ms. W.KanchanaChamodiWitharana)
4. Effect of Dietary Protein Level on Mud Crab (*Scylla serrata*) Fattening (Research student- Mr. H.L. Dinal)

Articles

Experience of CIRDP sponsored participant at the 6th International conference in Indonesia, CIRDP Development Digest, Issue 141, September 2015, <http://cirdap.org/>

Awards

1. IPCC and Prince Albert II Foundation in Monaco award for climate change-related studies in 2015
2. Chinese Scholarship Council scholarship for the PhD studies in China in 2016
3. The best paper presenter- PACON International conference, 27-30th March 2017, Ocean College, Zhejiang University, China
4. Best presenter and best research paper- Guangdong ocean university – 01st -06th May 2017- South China sea conference, China
5. Best interim report- LTO- South China sea Institute of Oceanology (CAS) - May 2018
6. Silk road international students award 2017 (SCSIO, China)- First price
7. Silk road international students award 2018 (SCSIO, China)- second price

Training

1. Research ethics- University of Ruhuna- 2013
2. Disaster Management and Mitigation – Coast Conservation and Coastal Resource Management Department- 2012
3. Usage of library resources for scientific writing – University of Ruhuna – 2012
4. Scientific writing - Sri Lanka Association for Fisheries and Aquatic Resources – 2013
5. Seminar for university teachers from Asian countries from 8th May – 28th may 2014 at China (Conducted by North Eastern Normal University)
6. Induction program for Academic staff from September – November 2014 by Staff development center University of Peradeniya
7. Hiroshima Summer school (Special program on Fisheries and Marine Biology), Japan – 22nd – 29th July 2015
8. Training program on tropical oceanography of South China sea- Guangdong ocean university – 01st - 06th May 2017- South China sea conference, China
9. 2017 International Student Frontier and Interscholastic Winter School of the Chinese Academy of Sciences from 15th to 19th January 2018- The Institute of Deep-Sea Science and Engineering (IDSSE), Sanya, China
10. 2018 International Student Frontier and Interscholastic summer School of Chinese Academy of sciences, Beijing China
11. Winter school 2018- Guizhou, China- January 2018
12. College of Ocean and Meteorology, Guangdong Ocean University “ South China sea Multi-scale Dynamic Process” (third round), 20-26 May 2019
13. The 11th International Workshop on Modeling the Ocean, 17-20 June 2019, Wuxi, China by Tsinghua University
14. Seminar on Green Fisheries Development Policy and Planning for Developing Countries, June 21th, 2022 to June 29th, 2022, Ministry of commerce, Wuxi, China
15. Leading and management of Universities- Staff development center, University of Peradeniya from August to October 2022

Speeches

1. Topic- Chlorophyll change with environment in North Indian Ocean College of Ocean and Meteorology, Guangdong Ocean University “ South China sea Multi-scale Dynamic Process” (third round), China- 24 May 2019
2. Topic- Modeling yellowfin tuna (*Thunnus albacares*) catch distribution in North Indian Ocean, International workshop on remote sensing of marine ecological environment. South china sea institute of oceanology, Guangzhou, China, 14 May 2019

Skills Enhancement

1. Completed a Human Resource Management Diploma in Management & Higher Professional Training Institute (2011-2012)
2. Completed a Higher Diploma in Computer Studies in Science Land Information Technology – 2006
3. Completed a Diploma in Computer Science in Technical Engineering College Sri Lanka - 2003
4. Completed the Computer Literacy Course at University of Ruhuna – 2008
5. Completed an online certificate course in Emergency Management (Massey university / University of New Zealand)- 19th Feb 2014
6. Completed an online certificate course in Marine and Antarctic Science (Massey university / UTAS)- 27th May 2014
7. Completed an E-Course on Carbon Taxation conducted by Development economics- world bank group- 14th April 2020

Services

1. Assistant deputy proctor of Faculty of Agriculture, University of Peradeniya. (In 2015)
2. Academic sub warden at University of Ruhuna- Wellamadama I hall (07.01.2013 -19.09.2013)
3. Academic sub warden at University of Peradeniya – Hilda Obeyesekera hall (01.02.2015- Up to date)
4. Member of councilors’ co-group of Faculty of Agriculture, the University of Peradeniya (Since 2015)
5. Member of Arts Council (Faculty of Agriculture representative) - the University of Peradeniya (In 2020)

Communication skills

1. IELTS- Overall band score – 7 (18.04.2015)
2. Completed three years English course at University of Ruhuna- (2008-2011)

Event organizing

1. canned fish programme for the students in SAARC society – August 2019
2. International egg day celebration- Faculty of Agriculture, University of Peradeniya- 1st October, 2019
3. PGIA congress (Session coordinator and in organizing committee member)- University of Peradeniya -21st and 22nd November 2019

Memberships

1. Lifetime member of "Sri Lanka Association for Fisheries and Aquatic Resources" (Since 2012)
2. Annual member of "Sri Lanka Association for the Advancement of Science". (2013)
3. Lifetime member of Young Scientists Forum (Since 2014)
4. Lifetime member of “ Sri Lanka Organization of Agriculture Professionals” (Since 2014)

Hobbies

Singing

- Completed Bhatkande Sangit Vidyapit Praveshika and Madyama – Vocal

Leadership

- Junior Prefect in Anula vidyalaya – 2001
- Senior prefect at Anula vidyalaya – 2004
- Editor in the association of Department of Oceanography & Marine Geology
- Student faculty representative UDG meeting

Intelligence tests

- High Distinction for Chemistry quiz in 2002 and Distinction for Chemistry quiz in 2004 conducted by Royal Australian Chemical Institute

Achievements in extracurricular activities

Singing

Competition	Achievement
Anulavidyalaya Sinhala day singing competition - 2002	First place
Dispensation protecting board singing competition of Dhamma schools - 1997	First place
Elephant cream soda karaoke competition -2006	Championship
Dispensation protecting board Paligatha competition of Dhamma schools - 1997	First place
Sri Jayawardanapura Education Unit- Buddhist Carol competition - 1997	First place
National Wesak ceremony Buddhist Carol competition - 2003	Second place
Dispensation protecting board Paligatha competition of Dhamma schools - 2005	Second place
National Cultural Ceremony folk singing – 2005	Second place
All island young teetotal organization folk singing competition - 2004	Second place
Dispensation protecting board singing competition of Dhamma schools - 1996	Third place
Colombo Young Buddhists' Association Singing competition – 2004	Third place
Buddhist Dispensation ministry Buddhist carol competition - 2002	Third place
Buddhist Dispensation ministry Buddhist carol competition - 2003	Third place
All island Buddhist Association Buddhist carol competition - 2007	Third place
Kavitha inter university female singers competition conducted by Higher Educational Ministry -2012	Sixth place
Derana Dream Star media competition	In last 18
voice of SCSIO, China	Champion
UCAS singing competition (individual)	Top 10
UCAS group singing competition	Champion
Silk road young dreams international competition – singing contest- 2020	3 rd price

Oration

Competition	Achievement
Orator of the year University of Ruhuna – 2012	Championship
Silk road young dreams international competition – speech contest- 2020	Excellence
Silk road young dreams international competition – speech contest- 2021	Champion

Creative writing

Competition	Achievement
Creative writing competition (Anulavidyalaya) - 2004	First place

Drama

Competition	Achievement
All island young teetotal organization drama competition - 2005	Second place

Poetry writing

Competition	Achievement
Anulavidyalaya Sinhala day poetry writing competition - 1997	Third place

Sports

Faculty representation and achievements at University of Ruhuna (Badminton- 2008, Chess- 2008, 2011)