



GAYAN PATHIRANA U P

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OBJECTIVE

To become innovative, explore the dynamic nature of the oceans, and regard the improvements in the field of Oceanography as opportunities to learn and share while being professional and ethical towards the society.

SUMMARY

✚ **Lecturer**, Department of Oceanography and Marine Geology, Faculty of Fisheries and Marine Science & Technology, University of Ruhuna, Sri Lanka.

✚ M.Sc. Degree (2016-2018) in **Physical Oceanography** (3.53 GPA), State Key Laboratory of Tropical Oceanography, South China Sea Institute of Oceanology, University of Chinese Academy of Sciences, China.

Thesis: Thermal situation in the Bay of Bengal and its consequences on the air-sea interaction

✚ B.Sc. Special degree (2009-2014) in **Oceanography and Marine Geology** (3.54 GPA), Faculty of Fisheries and Marine Science & Technology, University of Ruhuna, Sri Lanka.

Thesis: Seasonal variability of circulation in the northern Bay of Bengal with special reference to Sri Lanka coastal currents

PROFESSIONAL COURSES ATTENDED

✚ **2018** – Successfully completed the **CLIVAR-FIO** Joint Summer School on Past, Present and Future Sea Level Changes and the UNESCO/IOC ODC Training Course on Ocean Forecast Systems (25th June – 7th July, 2018), First Institution of Oceanography, SOA, Qingdao, China.

✚ **2016** – Successfully completed Advanced School on Earth System Modelling & Workshop on Climate Change and Regional Impacts over South Asia (18th July – 29th July, 2016), **ICTP/** Indian Institute of Tropical Meteorology (**IITM**), Pune, India.

✚ **2016** – Successfully completed training course on Emerging Trends in Ocean Observations and Ocean Data Analysis (04th July – 15th July, 2016), ESSO-Indian National Centre for Ocean Information Services (**INCOIS**), Hyderabad, India.

✚ **2016** – Successfully completed short course on Weather Forecasting using Numerical Weather Prediction Models (18th April – 17th May, 2016), CSSTEAP, Indian Institute of Remote Sensing (**ISRO**), Dehradun, India.

✚ **2013** – Successfully completed workshop on Marine Science and Disaster Management at National Institute of Fisheries and Nautical Engineering (**NIFNE**) at Mattakkuliya.

✚ **2013** – Successfully completed Marine Chart Reading Communication and operation of Satellite Navigators at National Institute of Fisheries and Nautical Engineering (**NIFNE**) at Galle.

✚ **2012** – Successfully completed the Certificate course in Repair, Maintenance and Operation for Out Board Engines at National Institute of Fisheries and Nautical Engineering (**NIFNE**) at Galle.

✚ **2012** – Successfully completed the Computer Literacy Course in University of Ruhuna.

- ✦ **2008** – Successfully completed Olympiad Biology exam.

PUBLICATIONS – JOURNAL AND CONFERENCE PAPERS

- ✦ Gayan Pathirana, Wang, D., Abeyratne, M.K., Priyadarshana, T., Yun, Q., and Chen, G.: Effect of seasonal barrier-layer on mixed-layer heat budget in the Bay of Bengal, **submitted**.
- ✦ Gayan Pathirana, Chen, G., Priyadarshani, K., Priyadarshana, T., Yang, L., and Wang, D.: Effect of spring mini-warm pool on tropical cyclone intensity change in the Bay of Bengal, **submitted**.
- ✦ Jinadasa, S. U. P., Pathirana, G., Ranasinghe, P. N., Centurioni, L., and Hormann, V., **2019**: Monsoonal Impact on Circulation Pathways in the Indian Ocean, **accepted** 07th January 2019.
- ✦ Gayan Pathirana, Chen, G., Ranasinghe, P. N., Liang, Z., and Wang, D., **2019**: Heat storage variability in the Bay of Bengal: Importance of using altimetry data, CLIVAR Exchanges SI, 76, 33-37.
- ✦ Kanchana Priyadarshani, Jie, X., Pathirana, G., Liao, J., Li, R., Jayarathne, W.N.D.S., and Wang, D.: Spatial variability in Nutrients and Phytoplankton Biomass in Eastern Indian Ocean during spring inter-monsoon, Xiamen Symposium on Marine Environmental Sciences (XMAS-IV), 07th January **2019**.
- ✦ Pathirana, U. P. G., Chen, G., Wang, D., and Priyadarshana, T.: Importance of cyclone induced vertical mixing: A case study on tropical cyclones Maarutha and Mora in the Bay of Bengal, 15th Academic Sessions, **2018**. 7th March 2018 at University of Ruhuna.
- ✦ Pathirana, U. P. G., Jinadasa, S. U. P., Ranasinghe, P. N.: Study of Critical Factors on Cyclone Genesis in the Bay of Bengal during 2010 – 2015. NARA Scientific Sessions, **2016**. 29th March 2016 at NARA Auditorium.
- ✦ Pathirana, U. P. G., Jinadasa, S. U. P., Ranasinghe, P. N., Centurioni, L.: Seasonal variability of surface circulation in the northern Bay of Bengal. NARA Scientific Sessions, 2015. 9th June 2015 at NARA Auditorium.
- ✦ Pathirana, U. P. G., Jinadasa, S. U. P., Ranasinghe, P. N., Centurioni, L.: Variability of Current Patterns in the Bay of Bengal with special reference on Coastal Currents along Sri Lanka. 12th Academic Sessions, **2015**. 4th March 2015 at University of Ruhuna.

EMPLOYMENT/TRAINING

- ✦ **Lecturer** (since February 2019), Department of Oceanography and Marine Geology, Faculty of Fisheries and Marine Science & Technology, University of Ruhuna, Sri Lanka.
- ✦ Research scientist on board on **R/V Shi Yan 3** (Indian Ocean Cruise) from 22nd – 14th May **2018**.
- ✦ Teaching assistant in the Department of Oceanography and Marine Geology, FMST, University of Ruhuna (**2015 – 2016**).
- ✦ Research scientist on board on **R/V Roger Revelle** (Bay of Bengal Monsoon Expedition) from 4th - 15th August **2015**.
- ✦ Trainee Oceanographer in the National Institute of Oceanography Marine Sciences (NIOMS), National Aquatic Resources Research and Development Agency (**NARA**), Sri Lanka (**2015**).
- ✦ Scientific Research team member in NARA research vessel ‘**SAMUDDRIKA**’.

COMPUTATIONAL SKILLS

- ✦ MATLAB – Proficient
- ✦ R – Beginner
- ✦ Fortran – Beginner
- ✦ GrADS/CDO – Beginner

MEMBERSHIPS

- Young Scientist Forum, NASTEC, Sri Lanka (YSF), since 2016
- Association for the Sciences of Limnology and Oceanography (ASLO), since 2018
- Young Earth System Scientists community, CLIVAR (YESS), since 2018

REFEREES

Dr. Pradeep Nalaka Ranasinghe

Senior Lecturer,

Department of Oceanography and Marine Geology,
Faculty of Fisheries and Marine Sciences & Technology,
University of Ruhuna, Matara, Sri Lanka.

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Dr. S. U. P. Jinadasa

Principal Scientist,

National Institute of Oceanography and Marine Sciences,
National Aquatic Resources Research and Development
Agency (NARA), Colombo 14. Sri Lanka.

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South China Sea Institute of Oceanology, CAS, China.

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I do hereby declare that the aforesaid particulars furnished by me, are true and correct to the best of my knowledge

Yours sincerely,

Gayana Pathirana U. P.