

## GAYAN PATHIRANA U P

PHONE: +94717439611, +86 18811332581

E-MAIL: [upgpathirana@gmail.com](mailto:upgpathirana@gmail.com)

<https://oceanexpert.net/expert/upgpathirana@gmail.com>

<https://www.linkedin.com/in/gayan-pathirana-00bb9183>

### 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

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

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

### EDUCATIONAL BACKGROUND

- ✚ 2016 – 2018, South China Sea Institute of Oceanology, UCAS, China.  
M.Sc. degree in physical oceanography (air-sea interactions).  
Thesis: Thermal situation in the Bay of Bengal and its consequences on the air-sea interaction
- ✚ 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** (25<sup>th</sup> June – 7<sup>th</sup> July, 2018), First Institution of Oceanography, SOA, Qingdao, China.
- ✚ Successfully completed Advanced School on **Earth System Modelling & Workshop on Climate Change and Regional Impacts over South Asia** (18<sup>th</sup> July – 29<sup>th</sup> July, 2016), ICTP/ Indian Institute of Tropical Meteorology (IITM), Pune, India.
- ✚ Successfully completed training course on **Emerging Trends in Ocean Observations and Ocean Data Analysis** (04<sup>th</sup> July – 15<sup>th</sup> July, 2016), ESSO-Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, India.
- ✚ Successfully completed short course on **Weather Forecasting using Numerical Weather Prediction Models** (18<sup>th</sup> April – 17<sup>th</sup> May, 2016), CSSTEAP, Indian Institute of Remote Sensing (ISRO), Dehradun, India.
- ✚ 2009 - 2014 University of Ruhuna, Sri Lanka  
**BSc Special Degree in Oceanography and Marine Geology**, University of Ruhuna with Second class Honors.  
Thesis: Seasonal variability of circulation in the northern Bay of Bengal with special reference to Sri Lanka coastal currents
- ✚ 2006 – 2008, Advanced Level: Mahinda College, Galle, Sri Lanka.  
Chemistry, Biology, Physics, English GCE A/L in 2008

### JOURNAL PUBLICATIONS / CONFERENCE PAPAERS

- ✚ 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, 2018.

- ✚ 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, 2018.
- ✚ Jinadasa, S. U. P., Pathirana, G., Ranasinghe, P. N., Centurioni, L., and Hormann, V.: Monsoonal Impact on Circulation Pathways in the Indian Ocean, submitted, 2018.
- ✚ Gayan Pathirana, Chen, G., Ranasinghe, P. N., Liang, Z., and Wang, D.: Heat storage variability in the Bay of Bengal: Importance of using altimetry data, accepted for publication in CLIVAR Exchanges SI, 2018.
- ✚ 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), accepted (2018).
- ✚ 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, 15<sup>th</sup> Academic Sessions, 2018. 7<sup>th</sup> March 2018 at University of Ruhuna.
- ✚ Pathirana, U. P. G., S.U.P. Jinadasa, P.N. Ranasinghe., (2016). Study of Critical Factors on Cyclone Genesis in the Bay of Bengal during 2010 – 2015. NARA Scientific Sessions, 2016. 29<sup>th</sup> March 2016 at NARA Auditorium.
- ✚ Pathirana, U. P. G., S.U.P. Jinadasa, P.N. Ranasinghe, L. Centurioni., (2015). Seasonal variability of surface circulation in the northern Bay of Bengal. NARA Scientific Sessions, 2015. 9<sup>th</sup> June 2015 at NARA Auditorium.
- ✚ Pathirana, U. P. G., S.U.P. Jinadasa, P.N. Ranasinghe, L. Centurioni., (2015). Variability of Current Patterns in the Bay of Bengal with special reference on Coastal Currents along Sri Lanka. 12<sup>th</sup> Academic Sessions, 2015. 4<sup>th</sup> March 2015 at University of Ruhuna.

#### Professional courses attended

- ✚ 2013 Successfully completed workshop on **Marine Science and Disaster Management** at National Institute of Fisheries and Nautical Engineering at Matakkuliya.
- ✚ 2013 Successfully completed **Marine Chart Reading Communication and operation of Satellite Navigators** at National Institute of Fisheries and Nautical Engineering at Galle.
- ✚ 2012 Followed the Certificate course in **Repair, Maintenance and Operation for Out Board Engines** at National Institute of Fisheries and Nautical Engineering at Galle.
- ✚ 2012 Completed the Computer Literacy Course in University of Ruhuna.
- ✚ 2008 Successfully passed Olympiad Biology exam.

#### Employment/training

- ✚ Research scientist on board on **R/V Shi Yan 3** (Indian Ocean Cruise) from 22<sup>nd</sup> – 14<sup>th</sup> 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 4<sup>th</sup> - 15<sup>th</sup> August 2015.
- ✚ Trainee Oceanographer in the National Institute of Oceanography Marine Sciences (NIOMS), National Aquatic Resources Research and Development Agency (**NARA**), Sri Lanka (2016).
- ✚ Scientific Research group 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)
- Association for the Sciences of Limnology and Oceanography (ASLO)
- Young Earth System Scientists community, CLIVAR (YESS)

## 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.

[nalakaranasinghe@hotmail.com](mailto:nalakaranasinghe@hotmail.com)

### **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.

[udaya@nara.ac.lk](mailto:udaya@nara.ac.lk) / [dewmina07@yahoo.com](mailto:dewmina07@yahoo.com)

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.