

Santhi Krishnan S

Edathamara House, CERA-94, Vennala (PO), Kochi, Kerala-682028, India.

Phone : +91 7736510320

email: s.krishnan@nio.org, s.santhikrishnan@gmail.com

Research Interest: To work on small and large scale ocean processes and the environmental factors which lead to it. Also interested in how this physical forcing affect the abundance and spatial/temporal variation in phytoplankton.

WORK EXPERIENCE

July 2017 – Present

Project Assistant

CSIR – National Institute of Oceanography, Kochi, India

- Currently Working on marine processes and its impact on biological elements in the seas around India under the supervision of **Dr. R. Jyothibabu**, Principal Scientist, CSIR – National Institute of Oceanography, Kochi, India.

Jan-Feb, 2018

Intern

SOKENDAI International Internship-2018 held at Institution of Space and Astronomical Science, JAXA, Japan.

- Worked on lunar mineralogy with the help of remote sensing data under the the supervision of **Dr. Makiko Ohtake**, Assistant Professor, Institution of Space and Astronomical Science, JAXA, Japan.

EDUCATION

2014 – 2016

Master of Science in Physics

Maharaja's College, Ernakulam, Mahatma Gandhi University, Kottayam, CGPA: 3.09/4.

2011 – 2014

Bachelor of Science in Physics

Maharaja's College, Ernakulam, Mahatma Gandhi University, Kottayam, CGPA: 3.23/4.

TECHNICAL SKILLS

Tools

- Visualisation and computing software such as SeaDAS, Ocean Data View, Grapher, Ferret, QGIS, ArcGIS and ENVI (ENvironment for Visualizing Images) for image processing.
- Basics of Programming languages C++, Python and L^AT_EX.
- OS : Ubuntu and Windows

Field Experience

- Attended 4 cruises on board ORV Sagar Kanya and FORV Sagar Sampada in Arabian Sea and 2 cruises on board RV Sindhu Sankalp in Bay of Bengal. Possess more than 120 days of field experience.
- Duties on board include processing and analysis of CTD profiler data, chemical and biological analysis of water sample etc.

Projects Involved

- Eastern Offshore Environmental Monitoring of KG - PG Basin and Palk Bay region in Bay of Bengal, 2017 - ongoing.
- Sea Water Quality monitoring Program – Marine Ecosystem Dynamics of Eastern Arabian Sea, 2018 - ongoing.

PROCEEDINGS AND PAPERS

- Karnan, C., R. Jyothibabu, N. Arunpandi, K. Jose Albin, S. Parthasarathi, and **S. Santhi Krishnan**. 'Response of microplankton size structure to summer stratification, freshwater influx and coastal upwelling in the Southeastern Arabian Sea'. Continental Shelf Research 193 (2020): 104038.
- Presented a paper on 'Biophysical response of phytoplankton to freshwater influx in the nearshore waters of Kochi, southwest coast of India' at the 6th Biennial Conference of Ocean Society of India, December 12-14, 2019 (OSICON-19).

- Presented a paper on 'Ecological impact made by the man made mechanical barrage in Cochin Estuary, India' in National Seminar on Rivers and Wetlands organised by Kerala University of Fisheries and Ocean Studies, 28-29, March 2019.
- Master thesis – A theoretical work on Blackhole Thermodynamics.
- Bachelor thesis – A theoretical work on Expansion of Universe.

WORKSHOPS AND SEMINARS

- Workshop on 'Oceanic Colour Remote Sensing – Data, Processing and Analysis' jointly organised by the UNESCO/IOC IODE and INCOIS-ITCOcean, 25-29 November 2019, Hyderabad, India.
- Indo-US workshop on 'Moored Buoy Data Analysis' organised by Ocean Observation System, 02-05 July 2019, National Institute of Ocean Technology, Ministry of Earth Science, India.
- Workshop on 'Statistical Analysis in Cosmology' by IUCAA at CUSAT, Kalamassery, 2017.
- Two day seminar on 'Foundations on Theoretical Physics', Maharaja's College, Ernakulam, 2016.
- Workshop on 'Solar Astrophysics' by IUCAA at MA College Kothamangalam, 2016. Seminar on 'Gravitational waves and Blackhole Entropy' at Aquinas College, Edacochin, 2016.
- Advanced Workshop on 'Time Domain Astronomy and Cosmology' organised by IRC, IUCAA and St. Thomas College Kozhencherry at CMS Kottayam, 2015.
- School on 'Gravitation and Cosmology', IRC Department of Physics CUSAT, 2015.
- National Seminar on 'General Theory of Relativity and Quantum Theory', Maharaja's College, 2015.
- Seminar on 'Current Trends in Material Science' at Aquinas College, Edacochin, 2014.
- National Seminar on 'Science and Society in Medieval Kerala', Maharaja's College, Ernakulam, 2013.

ACHIEVEMENTS

- Dr. Latha Anantha Memorial Award for the best Paper Presentation, Kerala University of Fisheries and Ocean Studies, 2019.
- Dr. Annie Joseph Vallamattom Memorial ICPP Participation, 2016.
- M.G. University Youth Festival, 2014, Folk dance winner.
- Winner of several science quizzes in college and school level.
- Winner of several cultural activities in college and school level.

EXTRA CURRICULAR ACTIVITIES

- Hold National Cadet Corps (Naval Wing) 'C' and 'B' Certificates with A grade and attended several camps including 'All India Nau Sainik camp', Visakhapatnam, Andhra Pradesh in 2012.
- Indian classical dancer.

REFERENCES

Dr. R Jyothibabu

Principal Scientist
Dept. of Biological Oceanography
CSIR – National Institute of Oceanography
Kochi, India.

Dr. Jijo P Ulahannan

Assistant Professor
Department of Physics
Government College
Kasaragod, India.