Aditya Narayanan

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Born: May 14th, 1988—Chennai, India
Nationality: Indian

Current position

Graduate Student, Indian Institute of Technology, Madras

Areas of specialization

Shelf sea processes • Southern Ocean dynamics • Dense Shelf Water formation processes • Circumpolar Deep Water dynamics • Fluid Dynamics • Marine Turbulence

Education

2014- PhD, currently ongoing, in Physical Oceanography, IIT Madras
2013-2014 MS program, converted to direct PhD, IIT Madras
2006-2010 BTech in Civil Engineering, National Institute of Technology, Jalandhar

Courses undertaken in present program

CGPA: 8.74

Course	Name	Credits	Grade
AS5420	Introduction to CFD	3	C
MA5720	Numerical Analysis of Diff Equations	3	A
OE5030	Wave Hydrodynamics	3	A
ME5530	Introduction to Atmospheric Science	3	B
OE5450	Num. Techniques in Ocean Hydrodynamics	4	S
CH8010	Advanced topics in CFD	3	A
MA5540	Probability and Statistics	3	B
OE5010	Oceanography	3	A
OE6999	Special Topics in Ocean Engineering	3	A
OE7999	Special Topics in Ocean Engineering	3	A

Publications and Conferences

Under review

2019 Aditya Narayanan, Sarah Gille, Matthew Mazloff, Murali K, "Water mass characteristics of the Antarctic margins and the production and seasonality of Dense Shelf Water", submitted to *Journal of Geophysical Research: Oceans*

Published

2018 Aditya Narayanan, Murali K, (2018), "Analysis of Turbulence in the Weddell Sea: Observations and Modeling", *Ocean Sciences Meeting, Portland*

2016 Aditya, Narayanan (2016), "Mathematical and numerical modeling of the physics of cold water downslope flows", *CLIVAR Open Science Conference, Qingdao*

Workshops Attended

2019 Air Sea Interactions in the Bay of Bengal, organised by TIFR-ICTS, Bengaluru

2016 International Summer School on Earth System Modeling, jointly organised by ICTP, Trieste, Italy, and Indian Institute of Tropical Meteorology, Pune

2015 Numerical modeling of free surface flows in coastal and ocean engineering, hands on experience, jointly organised by IITM and NTNU

2015 Internation Symposium on Antarctic Earth Sciences, Goa

2014 High Performance Computing Workshop, jointly organised by IIT Madras, IIT Bombay, C-DAC Pune, and NVIDIA Corporation

Skills and tools

1. Descriptive and dynamical physical oceanography.
2. Climate and ocean data analysis: can handle large data sets that are larger than RAM, can post-process data sets on cluster computing platforms across distributed memory
3. Scientific computing in Python, including Scipy, Numpy
4. Climate tools: Python Basemap, GSW toolbox
5. Parallel computing
6. Bash scripting

Appointments held

2013- Half time teaching assistant, IITM

2010-2013 Project Engineer, Flowline Systems Pvt Ltd

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