Curriculum Vitae

Nandini Ramesh

Graduate Student, Department of Earth & Environmental Sciences, Columbia University Address: Oceanography 105D, Lamont-Doherty Earth Observatory, Palisades, NY 10964 Email: nramesh@ldeo.columbia.edu

Education

• M.Phil./Ph.D. (Earth and Environmental Sciences), Columbia University (2012-present)

Department of Earth and Environmental Sciences

Major: Physical Oceanography

Minors: Climate Science, Statistical Methods

• M.Sc. (Earth Physics), Australian National University, Canberra, Australia (2011)

Research School of Earth Sciences

Specialisation: Geophysical Fluid Dynamics

Thesis: Propagation of Wave Signals through the Torres Strait

• B. Sc. (Physics), Stella Maris College (Madras University), Chennai, India

(2007-2010)

- Indian School Certificate (Year 12), Sishya School, Chennai, India (2005-2007)
- Indian Certificate of Secondary Education (Year 10), Abacus Montessori School, Chennai, India (1996-2005)

Awards

- Gold Medal for Physics (2007-2010), Madras University, Chennai
- Umachandran Cash Award for Most Meritorious Student of the Department of Physics (2007-2010), Stella Maris College, Chennai
- Silver Medal for English (2007-2010), and Proficiency Prize in English (2007-08), Stella Maris College, Chennai
- General Proficiency Prize (2007-2008, 2008-2009, 2009-2010), Stella Maris College, Chennai
- Kalyani Sundaram Memorial Prize for Best Performance in ISC Mathematics (2007), Sishya School, Chennai

Work Experience

- 1. Climate Change Research Centre at **University of New South Wales**, Sydney, Australia (Feb-Jul 2012)
 - Research Assistant under Dr. Shayne McGregor and Dr. Paul Spence: the role of the South Pacific Convergence Zone in the termination of El Niño events.
- 2. Centre for Atmospheric and Oceanic Sciences at **Indian Institute of Science**, Bangalore, India (Jul-Dec 2010)

- Project Trainee under Prof. Raghu Murtugudde: the role of subsurface processes in the onset of El Niño events.
- 3. Insect Flight Lab at the **National Centre for Biological Sciences**, Bangalore, India (May-Jun 2009)
 - Summer Student under Dr. Sanjay P. Sane: insect flight and the mechanics of the carnivorous plant Utricularia.
- 4. Astronomy and Astrophysics Group at **Raman Research Institute**, Bangalore, India (May-Jun 2008)
 - Visiting Student under Dr. Biman Nath: Hydrostatic Equilibrium in Different Astrophysical Contexts and Hydrodynamics of Star Formation.

Publications

- Ramesh, N. and Murtugudde, R., "All Flavors of El Niño Have Similar Early Subsurface Origins" *Nature Climate Change*, vol. 3, pp. 42-46, 2013.
- McGregor, S., Ramesh, N., Spence, P., England, M. H., McPhaden, M. J., Santoso, A., "Meridional movement of wind anomalies during ENSO events and their role in event termination" *Geophysical Research Letters*, vol. 40, pp. 1-6, 2013.

Media

- Australian Broadcasting Corporation Interview regarding my paper in Nature Climate Change in the science section of their website: http://www.abc.net.au/science/articles/2012/06/25/3531367.htm?topic=enviro
- Phys.org Interview regarding my paper in Nature Climate Change: http://phys.org/news/2012-06-tell-tale-el-nio-months.html

Extra- and Co-curricular Activities

- Student Volunteer on a scientific cruise on the RV Solander to deploy deep-ocean moorings in the Ombai and Timor Straits as part of Australia's **Integrated Marine Observing System (IMOS)** in June 2011.
- Member of the **Chevron Student Initiative Fund** peer committee (2013-present) which reviews proposals for student initiatives on campus.
- Member of the Australian National University Cross-Disciplinary Student Academy and the organizing team for the Global Cross-Disciplinary Tournament 2011.
- Editorial Board Member of Physik!, the Department of Physics Magazine (2008-2009), Chief Editor in 2009-2010.
- Member of the **Reclaim Our Beaches** youth initiative, which organizes beach cleanups and promotes eco-friendly development of the beaches of Chennai in coordination with the **Student Sea Turtle Conservation Network** (2008-2010).
- **Secretary** of Dramatics Club Maris College in 2008-2009.
- **Volunteer** at V-Excel, a school for children with Autism Spectrum Disorders (2007-2009), in Chennai, India.