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SUBIMAL GHOSH

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DATE OF BIRTH: 17th November, 1979

EMPLOYMENT

Professor at Department of Civil Engineering, IIT Bombay from December, 2018
Associate Professor at Department of Civil Engineering, IIT Bombay from September, 2014 to November, 2018.
Assistant Professor at Department of Civil Engineering, IIT Bombay during November 2007 to August 2014.

EDUCATION

Doctor of Philosophy (Ph. D.): Indian Institute of Science, Bangalore, India, August 2004 to October 2007, *Thesis title: Hydrologic Impacts of Climate Change: Uncertainty Modelling*
Master of Engineering (M. E.): Indian Institute of Science, Bangalore, India, August 2002 to July 2004
Thesis title: Risk Minimization Models for River Water Quality Control.
Bachelor of Engineering (B. E.): Jadavpur University, Kolkata, India, August 1998 to July 2002

RESEARCH INTERESTS

Hydro-climatology: Assessing Hydrologic Impacts of Climate Change, Indian Summer Monsoon, Regional Climate Modelling, Land-Atmosphere Interactions, Urban Climate, Extremes, Seasonal Prediction and Weather Forecast
Hydrology: Meso-scale hydrologic modelling, Land-Vegetation interactions, Water management for Human-Natural Systems

RESEARCH GUIDANCE

Post-doctoral fellows mentored: 2 (Ongoing)
Ph. D.: 12 Completed (8 as Main Supervisor), 19 Ongoing (14 as Main Supervisor)
Masters: 6 Completed, 3 Ongoing

TEACHING

Undergraduate Courses: Fluid Mechanics, Hydraulics, Fluid Mechanics Laboratory, Probability and Statistics for Civil Engineers
Postgraduate and Advanced Courses: Eco-hydro-climatology, Applied Statistics, Watershed Management, Water Resources Systems

SPONSORED RESEARCH PROJECTS

13 projects funded by Newton Bhaba through collaboration between Ministry of Earth Sciences (India) and National Environmental Research Council (UK), Ministry of Earth Sciences (India), Ministry of Water Resources (India), Department of Science and Technology (India), Office of Principal Scientific Advisor to the Govt of India, Ministry of Environment, Forest and Climate Change (India), Department of Environment, Govt of West Bengal (India)

AWARDS AND RECOGNITIONS

1. Shanti Swarup Bhatnagar Prize 2019
2. PRL Award 2017.
3. IIT Bombay Research Publication Award 2018 and Young Investigator Award 2012.
4. Article entitled “Coupled Land- Atmosphere Regional Model Reduces Dry Bias in Indian Summer Monsoon Rainfall Simulated by CFSv2”, published in Geophysical Research Letters has been selected as research spotlight of American Geophysical Union (2018)
5. The outstanding reviewer award for Journal of Hydrologic Engineering, American Society of Civil Engineers (ASCE), 2015 and 2010.
6. Editorial Board Member (Associate Editor) of Journal of Earth System Science (JESS), published by Indian Academy of Sciences
7. Young scientist/ engineer awards by multiple Science/ Engineering Academies of India (Indian National Science Academy, National Academy of Science [India], Indian National Academy of Engineers and Institute of Engineers [India]). National Academy of Science India (NASI) Platinum Jubilee Young Scientist Award 2013 in Electronics, Computer and Engineering Sciences
8. BOYSCAST Fellowship 2010 from Department of Science and Technology, Government of India for carrying out research related to climate change in Oak Ridge national Laboratory, TN, United States of America.
9. Prof. N S Govinda Rao Medal Best Ph. D. Thesis Award 2007 from Department of Civil Engineering, Indian Institute of Science, Bangalore, India.
10. National Doctoral Fellowship Award from All India Council for Technical Education (AICTE) in 2004.
11. Awards Received by Students
 - a. S Kannan, Kaustubh Salvi and Vittal H received the best thesis award from IIT Bombay in 2013.
 - b. Anamitra Saha got prestigious Nehru Fulbright Fellowship in 2017.
 - c. Pratimal Patel received Overseas Visiting Doctoral Fellowship in 2019.
 - d. Tejasvi Chauhan received Prime Minister Research Fellowship (PMRF) in 2019

KEY SERVICES TO THE COMMUNITY

1. Lead Author of Intergovernmental Panel on Climate Change (IPCC) Working Group –I for Assessment report 6 (2018) and Reviewer of IPCC, WG-1, Assessment Report 5.
2. Project Review Committee Member for mega-projects assigned to Centre for Development of Advanced Computing, funded by Ministry of Earth Sciences, Government of India (2015-17) and for projects on “Uncertainty in Engineering Applications” funded by, Bhaba Atomic Research Centre during 2012-2015
3. Led a project on the development of India’s first integrated real time urban flood forecasting system the Principal Scientific Advisor to the Government of India The project involved a consortium of 30 scientists from 8 (academia and R&D) organizations in India). The project was successfully completed within a record time of

3 SELECTED PUBLICATIONS RELATED TO URBAN CLIMATE

1. Ghosh, S., Das, D, Kao, S-C, Ganguly, A. R. (2012), Lack of uniform trends but increasing spatial variability in observed Indian rainfall extremes, *Nature Climate Change*, 2, 86-91, DOI: doi:10.1038/nclimate1327
2. Devanand, A., Roxy, M. K., & Ghosh, S. (2018). Coupled land- atmosphere regional model reduces dry bias in Indian summer monsoon rainfall simulated by CFSv2, *Geophysical Research Letters*, 45, 2476-2486. <https://doi.org/10.1002/2018GL077218>
3. Devanand A, Huang, M. Moetasim, A, Barik, B and Ghosh S. (2019), Choice of Irrigation Water Management Practice affects Indian Summer Monsoon Rainfall and its Extremes, *Geophysical Research Letters*, 46, 9126-9135. <https://doi.org/10.1029/2019GL083875>