VEENA SRINIVASAN
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EDUCATION

Stanford University
PhD, Emmet Interdisciplinary Program in Environment and Resources, 2008

Boston University Master of Arts, Energy and Environmental Analyses, 1997

Indian Institute of Technology, Mumbai, Bachelor of Technology, Engineering Physics, 1995

RESEARCH EXPERIENCE

Senior Fellow and Director, Centre for Social and Environmental Innovation (CSEI) 2019 -
Fellow, Ashoka Trust for Research in Ecology and the Environment (ATREE) 2014-2019
Programme Leader – Water, Land and Society Programme 2013 – 2017
Convenor, Centre for Environment and Development, 2017-2019

Projects Led

- *Principal-Investigator Jan' 20 – Dec '21*

- *Principal-Investigator Sep '18 – Aug '19*
  Context Based Water targets in the Noyyal-Bhavani Basin
- *Co-Principal Investigator Apr '19 – June '21*
  Water Accounting and Water Quality Mapping in the Noyyal-Bhavani Basin
- *Principal-Investigator Sep '18 – Aug '20*
  Anticipating and Influencing Change in Cauvery Delta
- *Co-Principal Investigator Sep. '12 – Aug '17*
  Adapting to climate change in urbanizing watersheds in India (ACCUWa)
- *Principal Investigator Apr. '14 – Dec '17*
  2035 Vision for Sustainable Water and Wastewater Management in Bangalore
- *Principal Investigator May '16 – Dec '19*
  Upscaling Catchment Processes for Sustainable Water Management in Peninsular India
- *Principal Investigator Apr '16 – Present*
  Development of Citizen Dashboards for Lakes in Bangalore
- *Co-Principal-Investigator Jan '15 – Jun '16*
  US-India planning visit: Linking remote sensing, citizen science and robotics to address critical environmental problems in data sparse regions.

Senior Research Associate, Pacific Institute Jul '11 – Present

- Co-authored position paper on Global Water Governance for G20 Summit in 2012
- Co-authored report on "mWASH" Mobile Phone Applications in water and sanitation
- Lead author in a concept note on Multiple-Use Water Services for Rockefeller Foundation
- Co-authored report on climate change resilience and urbanization in Indore, India

Post-doctoral scholar, Stanford University Sep '08 – Jun '11

- Developed a framework for a proposed Global Freshwater Initiative at Stanford
- Conducted a meta-analysis to understand the causes of water crises across the world

Research Associate, Pacific Institute Sep. '01 – Sep '02

- Analyzed potential for Demand Side Management in the commercial/industrial sector of California.
- Prepared comparative case studies of successful urban water management worldwide

Research Associate, Center for Interdisciplinary Studies in Environment and Development (CISED), Bangalore Mar '01 – Aug '01

- Evaluated the disaggregated benefit-cost analysis of the ecosystem services provided by the Biligiri Ranganathaswamy Temple (BRT) Wildlife Sanctuary in India.

CONSULTING EXPERIENCE

Consultant, Utilities Group, Pricewaterhouse Coopers India Mar '98–Nov '99

- Developed and implemented software for Bangladesh Power Development Board.
- Provided analyst support in institutional strengthening of Grid Corporation of Orissa Ltd and Andhra Pradesh State Electricity Board

AWARDS AND RECOGNITION

1. IUGG Union Lecturer (2019)
2. Prins Claus Chair, Utrecht University (2018-2020)
3. Citation for Excellence in Reviewing for the journal Water Resources Research, AGU (2017)
4. Nature Travel Grant for Gordon Catchment Science Conference, USA (2017)
5. Citation for Excellence in Reviewing for the journal Water Resources Research, AGU (2016)
6. Royal Bank of Scotland Visiting Faculty to University of Waterloo (2016)
7. Jim Dooge Award for best paper in Hydrology and Earth System Science (2015)
8. Water Resources Research Editor's Choice Award, American Geophysical Union (2013)
9. Teresa Heinz Environmental Scholar, Heinz Foundation (2005-2007)
10. National Talent Search Scholarship, Government of India (1989-1991)

PEER REVIEWED PUBLICATIONS

1. Ballukraya N. and **V. Srinivasan** (2019) Groundwater levels in over-exploited, hard rock aquifers: insights from borewell camera scans in South India. Current science. Forthcoming
2. Patil, V. S., Thomas, B. K., Lele, S., Eswar, M., and **V. Srinivasan** (2018) Adapting or Chasing Water? Crop Choice and Farmers' Responses to Water Stress in Peri-Urban Bangalore, India. Irrig. and Drain., https://doi.org/10.1002/ird.2291
3. Apoorva R., D. Biswas, **V. Srinivasan** (2018) Do household surveys estimate tap water use accurately? Evidence from pressure sensor based estimates in Coimbatore, India. Journal of Water Sanitation and Hygiene. In Press.
4. Penny, G., **V. Srinivasan,** I. Dronova, S. Lele, and S. Thompson (2018). Spatial characterization of long-term hydrological change in the Arkavathy watershed adjacent to Bangalore, India., Hydrology and Earth System Sciences. In Press
5. Lele S., **V. Srinivasan,** Thomas B. and Jamwal P. (2018). Adapting to climate change in rapidly urbanizing river basins: insights from a multiple-concerns, multiple-stressors, and multi-level approach. Water International. http://dx.doi.org/10.1080/02508060.2017.1416442

6. **Srinivasan, V.,** & Lele, S. (2017). From Groundwater Regulation to Integrated Water Management. Economic & Political Weekly, 52(31), 107.
7. Young, S., Peschel J., Penny Gopal, Thompson S. & **Srinivasan V.** (2017) Robot-Assisted Measurement for Hydrologic Understanding in Data Sparse Regions. *Water*, 9(7), 494; doi:10.3390/w9070494
8. **Srinivasan, V.,** Konar, M., & Sivapalan, M. (2017). A dynamic framework for water security. *Water Security*. March 2017
9. Thomas, B.K.**,** Lele S., **Srinivasan V.** & Jamwal P. (2017) Rethinking Resilience in Urbanizing River Basins, *Seminar*, 694: 55-58
10. **Srinivasan, V.** (2017). Doing science that matters to address India's water crisis. Resonance, 22(3), 303-313.
11. **Srinivasan, V.,** Sanderson, M., Garcia, M., Konar, M., Blöschl, G., & Sivapalan, M. (2017). Prediction in a socio-hydrological world. *Hydrological Sciences Journal,* 62(3), 338-345.
12. Troy, T. J., Konar, M., **Srinivasan, V.,** & Thompson, S. (2015). Moving sociohydrology forward: a synthesis across studies. Hydrology and Earth System Sciences, 12(3), 3319-3348. https://www.hydrol-earth-syst-sci.net/19/3667/2015/
13. **Srinivasan, V. ,** 2015. Reimagining the past – use of counterfactual trajectories in socio-hydrological modelling: the case of Chennai, India. Hydrol. Earth Syst. Sci., 19, 785-801, 2015. URL: http://www.hydrol-earth-syst-sci.net/19/785/2015/
14. McMillan, Hilary, et al. 2016. Panta Rhei 2013-2015: Global perspectives on hydrology, society and change. Hydrological Sciences Journal 61(7):1174-1191.
15. **Srinivasan, V. ,** S. Thompson, K. Madhyastha, G. Penny, K. Jeremiah, and S. Lele (2015). Why is the Arkavathy River drying? A multiple hypothesis approach in a data scarce region. Hydrology and Earth System Sciences, 19(4), 1905-1917. *(Awarded the 2016 Jim Dooge Award for best paper in HESS by European Geophysical Union)*
URL: http://www.hydrol-earth-syst-sci.net/19/1905/2015/
16. Jamwal, P., T. Md. Zuhail, P. R. Urs, **V. Srinivasa**n and S. Lele (2015). Contribution of sewage treatment to pollution abatement of urban streams. Current Science 108(4): 677-685.
17. **Srinivasan, V.,** & Kulkarni, S. (2014). Examining the emerging role of groundwater in water inequity in India. Water International, 39(2), 172-186. doi:10.1080/02508060.2014.890998..
18. Sivapalan, M., M. Konar, **V. Srinivasan,** A. Chhatre, A. Wutich, C. A. Scott, J. L. Wescoat, and I. Rodríguez-Iturbe. Socio-hydrology: Use-inspired water sustainability science for the Anthropocene. Earth's Future 2, no. 4 (2014): 225-230.
19. Thompson, S. E., M. Sivapalan, C. J. Harman, **V. Srinivasan,** M. R. Hipsey, P. Reed, A. Montanari, and G. Blöschl. Developing predictive insight into changing water systems: use-inspired hydrologic science for the Anthropocene. Hydrology and Earth System Sciences 17, no. 12 (2013): 5013-5039.
URL: http://www.hydrol-earth-syst-sci.net/17/5013/2013/hess-17-5013-2013.html
20. **Srinivasan, V.**, B. K. Thomas, P. Jamwal and S. Lele (2013). Climate vulnerability and adaptation of water provisioning in developing countries: approaches to disciplinary and research-practice integration. Current Opinion in Environmental Sustainability 5(3): 378-383.
21. Lele, S. & **V. Srinivasan** (2013). Disaggregated economic impact analysis incorporating ecological and social trade-offs and techno-institutional context: A case from the Western Ghats of India. Ecological Economics 91 (2013) 98–112.
22. **Srinivasan, V.**, E. F. Lambin, S. M. Gorelick, B. H. Thompson, and S. Rozelle (2012). The Nature and Causes of the Global Water Crisis: Syndromes from a meta-analysis of coupled human-water studies. Water Resources Research, 48, W10516, doi:10.1029/2011WR011087. *(Awarded 2012 Water Resources Research Editor's Choice Award by American Geophysical Union)*
23. **Srinivasan, V.**, K. Seto, R. Emerson and S. M. Gorelick (2012). The impact of urbanization on water vulnerability. Global Environmental Change (2012), http://dx.doi.org/10.1016/j.gloenvcha.2012.10.002.

24. **Srinivasan, V.**, S. M. Gorelick, L. Goulder (2010). Sustainable urban water supply in south India: Desalination, efficiency improvement, or rainwater harvesting? Water Resources Research, 46, W10504, doi:10.1029/2009WR008698.
URL: http://www.agu.org/pubs/crossref/2010/2009WR008698.shtml
25. **Srinivasan, V.**, S. M. Gorelick, L. Goulder (2010). A hydrologic-economic modeling approach for analysis of urban water supply dynamics in Chennai, India. Water Resources Research, 46, W07540, doi:10.1029/2009WR008693.
URL: http://www.agu.org/pubs/crossref/2010/2009WR008693.shtml
26. **Srinivasan, V.**, S. M. Gorelick, L. Goulder (2010). Factors determining informal tanker water markets in Chennai, India. Water International, 35, 254-269.

BOOK CHAPTERS, REPORTS, CONFERENCE PAPERS, DISCUSSION PAPERS

1. **Srinivasan V.** and P.P. Mujumdar (2019) Science and Technology Gaps: Policy Recommendations in Water Futures of India Status of Science and Technology. Edited by P.P. Mujumday and V. Tiwari. INSA and IISc Press. ISBN: 978-81-939482-0-0, March 2019.
2. **Srinivasan V.** and Joy, K. J. (2019). Transitioning to Sustainable Development Goals for Water. Economic & Political Weekly, 54(11), 17.
3. **Srinivasan V.** and S. Lele (2018) Managing river basins: Re-examining the biophysical basis in India's Water Futures: Emergent Ideas and Pathways Edited By K. J. Joy, S. Janakarajan. Routledge, India.
4. **Srinivasan, V.,** Penny, G., Lele, S., Thomas, B.K. and Thompson, S. (2017) Proximate and underlying drivers of socio-hydrologic change in the upper Arkavathy watershed, India. Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2017-543
5. **Srinivasan, V.,** S. Lele, B.K. Thomas & P. Jamwal (2017), 'Whose River? The Changing Waterscape of the Upper Arkavathy Under Urbanisation', in Hiremath, A. J, N. D. Rai & A. Siddhartha (eds.) Transcending Boundaries: Reflecting on Twenty Years of Action and Research at ATREE, Bangalore: ATREE, 122-130
6. Devasenadhipathi U., D. Biswas, **V. Srinivasan** and S. Lele (2016). Patterns and drivers of household water consumption in Coimbatore. Eighth Biennial Conference of the Indian Society for Ecological Economics (INSEE) on Urbanization and the Environment at IISc, Bangalore, January 4-6, 2016
7. **Srinivasan, V.,** S. Lele, B. Thomas, P. Jamwal (2016). The transition from water scarcity to water pollution in Thippagondanahalli Halli catchment, India. Eighth Biennial Conference of the Indian Society for Ecological Economics (INSEE) on Urbanization and the Environment at IISc, Bangalore, January 4-6, 2016.
8. Lele S., K. Madhyastha, S. Sulagna, R. Dhavamani and **V. Srinivasan (**2016). Water governance in small towns: A comparative study of small towns in Karnataka and Tamil Nadu. Eighth Biennial Conference of the Indian Society for Ecological Economics (INSEE) on Urbanization and the Environment at IISc, Bangalore, January 4-6, 2016.
9. Thomas, B.K., P. Jamwal, S. Lele and **V. Srinivasan** (2015). Thinking About Urban Resilience: The Case of Water Scarcity and Wastewater Reuse in Bengaluru. Urban Resilience: Proceedings of the Colloquium, Bengaluru: Public Affairs Centre, Sept. 27 2014. ISBN 9788188816378
10. Thomas, B.K., M. Eswar, S. D. Kenchaigol, **V. Srinivasan** and S. Lele (2015). Enhancing Resilience or Furthering Vulnerability? Responses to Water Stress in an Urbanizing Basin in Southern India. ICARUS Fourth Global Meeting, University of Illinois at Urbana-Champaign, USA, 7th-10th May 2015.
11. Jamwal, P., B.K. Thomas, S. Lele and **V. Srinivasan** (2014). Addressing Water Stress Through Wastewater Reuse: Complexities and Challenges in Bangalore, India, Proceedings of the Resilient Cities 2014 Congress, Bonn: ICLEI.
12. **Srinivasan, V.**, D. Suresh Kumar, P. Chinnasamy, S. Sulagna, D. Sakthivel, P. Paramasivam, S. Lele. (2014). Water management in the Noyyal River: A situation analysis. Environment and

Development Discussion Paper No. 2: Ashoka Trust for Research in Ecology and the Environment, Bengaluru.

13. Lele, S., V. **Srinivasan**, P. Jamwal, B. K. Thomas, M. Eswar and T. Md. Zuhail (2013).Water management in Arkavathy basin: A situation analysis. Environment and Development Discussion Paper No. 1: Ashoka Trust for Research in Ecology and the Environment, Bengaluru.
14. Hutchings, M. T., A. Dev, M. Palaniappan, **V. Srinivasan,** N. Ramanathan, and J. Taylor (2012). mWASH: Mobile Phone Applications for the Water, Sanitation, and Hygiene Sector. April 2012. URL: http://www.pacinst.org/reports/mwash/index.htm
15. **Srinivasan, V.**, M. Palaniappan, J. Akudago, M. Cohen and J. Christian-Smith (2012). Multiple-use water services: Developing a robust and sustainable approach. March (2012). URL: http://pacinst.org/reports/MUS/index.htm
16. Climate change and urbanisation: Building resilience in the urban water sector, a case study of Indore, India. (2011). A joint report by ISET, India (E. Saroch, D. Singh, L. Seraydarian, S. Stapleton, S. Chopde) and Pacific Institute (M. Palaniappan, **V. Srinivasan**, and M. Cohen) URL: http://www.pacinst.org/reports/urban_water_Indore/index.htm
17. **Srinivasan, V.** (2011). Adaptation-Water. Encyclopedia of Weather and Climate, (Eds) Stephen H. Schneider, Terry L. Root, Michael D. Mastrandrea . Oxford University Press, 2011.
18. **Srinivasan, V** (2008). An integrated framework for analysis of water supply strategies in a developing city: Chennai, India. Interdisciplinary Program in Environment and Resources. Stanford, CA, Stanford University. PhD: 322.
19. Gleick P. H., D. Haasz, C. Henges-Jeck, **V. Srinivasan**, G. Wolff, K. Kao Cushing, A. Mann. Waste not, want not: The potential for urban water conservation in California. Pacific Institute, 2003. URL: http://www.pacinst.org/reports/urban_usage/
20. Palaniappan M., Peter H. Gleick, C. Hunt and **V. Srinivasan**. Chapter 3: Water Privatization Principles and Practices in THE WORLD'S WATER: 2004-2005 The Biennial Report on Freshwater Resources, Island Press, 2004.
21. Gleick Peter H., **V. Srinivasan**, C. Henges-Jeck, G. Wolff Chapter 6: Urban Water Conservation: A Case Study of Commercial and Industrial Water Use in California. The world's water: 2004-2005 The Biennial Report on Freshwater Resources, Island Press, 2004.
22. Lélé, S., **V. Srinivasan**, and K. S. Bawa (2001). Returns to investment in conservation: Disaggregated benefit-cost analysis of the creation of a Wildlife Sanctuary. In K.N. Ganeshaiah, R. U. Shaanker and K.S. Bawa (Eds) Proceedings of International Conference on Tropical Ecosystems: Structure, Diversity and Human Welfare. New Delhi, Oxford-IBH Publishing Co., pp.31-33.

OPEDs

1. **Srinivasan V.** 2018. Water scarcity: Will Bengaluru become the next Cape Town? The Hindu. Feb 21, 2018.
2. **Srinivasan V.** 2017. Doing Science that Matters to Address India's Water Crisis, Oct 23, 2017. Fundamatics (IIT Bombay Newsletter)
3. **Srinivasan V.,** S. Lele, J. Krishnaswamy and P. Jamwal. 2017. Rallying to protect our rivers is great. But let's get the science right. http://economictimes.indiatimes.com/opinion/poke-me/poke-me-rallying-to-protect-our-rivers-is-great-but-lets-get-the-science-right/articleshow/60412430.cms
4. S Lele, **V Srinivasan,** 2017. Death knell for citizen-led lake governance. Panorama (Deccan Herald), 4 August, 2017
5. **Srinivasan V.** 2016. Economic Times. Cauvery row: Let us dive into facts and figures, 8 October 2016
6. Lele, S., P. Jamwal and **V. Srinivasan**. Deccan Herald. Managing our lakes and sewage, 8 April 2016.

7. **Srinivasan V.** and S. Lele. Why we must have water budgets. The Hindu. 29 March 2016.

BLOGS

https://medium.com/@veenas_water/

INVITED TALKS

1. Bangalore's Lakes: Blueprint for a Circular Water Economy, Civil Engineer Seminar Series, TU Delft, April 24, 2019
2. Bridging water science, policy and practice to address India's water crisis, Brown Bag Seminar, IHE Delft, May 22, 2019
3. Looking into the crystal ball: Anticipating and Influencing change in Asian deltas. Prins Claus Chair Inaugural Lecture. Utrecht University, Utrecht. May 7, 2019
4. Achieving water security in a hot, flat and crowded world. World Water Day Lecture, Unilever Global Research Centre, Bangalore. March 22, 2019
5. Human Alterations of Catchment Processes in the Cauvery Basin. Indian National Science Academy Annual Meeting, December 27, 2018.
6. Bridging water science, policy and practice to address India's water crisis, Keynote Lecture, IIT Bombay Civil Engineering Conference, November 29, 2018
7. Role of Citizen Science in Preserving Bangalore's Lakes. Indo-UK workshop on monitoring and analysis strategies for anthropogenic pollutants in environmental and waste waters, Royal Orchid Convention Centre, Bangalore, November 15, 2018
8. Addressing Water Challenges through Policy and Governance. Keynote lecture in conference organised by GIZ on Safeguarding Water Resources in Rural India. November 1, 2018
9. Land, labour, and technology: Responses to water stress in an urbanizing watershed in Southern India, Keynote Lecture, LANDAC Conference, Utrecht, Netherlands, June 27, 2018.
10. Keynote Lecture, Columbia Global Centre
11. Peering at the crystal ball: Predicting and achieving water security in India. Bonjour India, IISc Bangalore, Nov 20, 2017
12. Predicting and achieving water security in a socio-hydrologic world. University of Birmingham Seminar Series, Nov 8, 2017
13. The Race to the Bottom: Human Alterations to Watershed Processes in South India, Gordon Catchment Science Conference, Maine, June 24-30 2017
14. Socio-hydrologic Regime Change in the upper Arkavathy watershed, India, JpGU-AGU Joint Conference, Tokyo, May 26-29 2017
15. Water-Energy-Food Nexus in Arkavathy Sub-basin. Toward Resilient Water-Energy-Food Systems in India: The Scoping Workshop, IISc Bangalore, November 23, 2016
16. Panel Discussion on The Cauvery Dispute; Yesterday, Today, Tomorrow. Bangalore International Centre, October 27, 2016
17. Synthesizing Insights from Field Observations and Satellites in Arkavathy Sub-basin. One-day Workshop on Remote sensing Applications in the Field of Civil Engineering, Nitte Meenakshi College of Engineering, Bangalore, 23 Sept. 2016
18. Problem Driven Water Science. Women in Science Panel, Azim Premji University, Sept. 17, 2016
19. Water in Smart Cities. IoT for Smart Cities Panel, CCICI - NIST International Workshop on Cloud Computing and Cyber Physical Systems, 8 June 2016, Bangalore
20. Problem Driven Research in the Water Sector. Significance of Hydrology in Civil Engineering practice, MS Ramaiya Institute of Technology, 28 July 2016, MSRIT, Bangalore
21. Towards equitable water governance: Processes and scales, Equitable Water Governance, International Water Resources Association, Webinar, 16 May, 2015

22. Problem Driven Research on Water, Civil Engineering Seminar, Christ University, 9 April 2015, Christ University, Bangalore
23. Adapting to climate change in the water sector, World Water Day, Mahatma Gandhi Institute for Rural Energy Development, 22 March 2016, Bangalore
24. Adapting to climate change in urbanizing watersheds: Preliminary insights from Chennai and Bangalore. Summer School in Water and Sustainability. Indian Institute of Technology, Madras, March 6, 2015.
25. Adapting to climate change in urbanizing watersheds: Preliminary insights from the Arkavathy watershed. Climate Studies Program. Indian Institute of Technology, Mumbai, February 4, 2015.
26. Urban Water Issues in India, National Water Summit on Water and Sanitation, Ministry of Drinking Water and Sanitation, 2016-01-07, Bangalore
27. Low-cost approaches to problem-driven hydrologic research: The case of Arkavathy watershed, India. Session: Hydrology and earth sciences in developing world communities. American Geophysical Union Conference, San Francisco CA, Dec. 2014.
28. Socio-hydrological feedbacks in the Arkavathy Watershed. Towards socio-hydrologic synthesis: modelling the co-evolutionary dynamics of coupled human, water and ecological systems. Workshop organised by Socio-Environmental Synthesis Centre (SESYNC), Annapolis, MD, August 4-7, 2014.
29. Water stress, systems thinking and adaptive governance in an urbanizing basin: Water Supply in Bangalore. APN-TERI Workshop on Systems Thinking and Adaptive Governance: The Context of Urban Flooding and Water Stress in Bangalore 24-25 April 2014.
30. Socio-hydrologic patterns, feedbacks and trajectories in coupled human-water systems. Keynote Speaker at the Vienna Catchment Science Symposium, Saturday 13th April, 2013, Vienna University of Technology.
31. Can Bangalore Depend on the Arkavathy? Public Panel Discussion on Rejuvenating Lakes, Rivers and Wells to make Bangalore Water Secure. Organized by Environment Support Group, April 2013.
32. Processes and scales of inequity in urbanizing areas in India. US-NSF Sponsored workshop on Equitable Water Governance, Feb 21-22, 2013 University of California, Santa Cruz.
33. Closing Keynote Speaker at the 13th Annual Human Rights Symposium- Dying of Thirst: The Right to Water in a Globalized World. At the Centre on Rights Development's (CORD), Josef Korbel School, University of Denver. (March 2012).
34. Pipe Dreams - Water for thirsty cities in India. Member-led Forum, Commonwealth Club of San Francisco (August 2011).
35. Columbia Water Centre Seminar Series, Columbia University, NY (April 2010).
36. Stanford Business School Speaker Series on Water (March 2010).
37. Environmental Earth Systems Science Colloquium, Stanford University, CA (May 2009).
38. University of New Mexico, Civil Engineering Seminar, Albuquerque, NM (April 2009).
39. Systems Dynamics Guild, Sandia National Labs, Albuquerque, NM (April 2009).
40. Indian Institute of Science, CisTUP Seminar, Bangalore (June 2009).
41. Indian Institute of Management Seminar, Bangalore (July 2009).
42. Annual Stanford India Conference in 2008, organized by the Stanford Center for International Development. The audience included high level Indian policy makers.
43. Faculty seminar at the Centre for Interdisciplinary Studies in Environment and Development, Bangalore, India, 2006.

CERTIFICATE COURSES ORGANISED

Integrated Water Resources Management, Sep 17-29, 2018. Attended by 20 water engineers in Karnataka state

Water Conflicts Training Programme, Oct 4-7 2016. Attended by twenty-five professionals working on water conflicts across India.

Summer Institute in Water and Society, Summer School, ACCUWa, IDRC Canada, 14-29 June 2015. Attended by twenty three post Masters students from natural and social sciences

WORKSHOPS ORGANISED

Co-organiser, *Adapting to Climate Change in Urbanising Watersheds: National Dissemination Workshop*, New Delhi, August 22-23, 2016. Attended by policy makers, academics and stakeholders from across India.

Co-organiser, *Water in Arkavathy sub-basin: Status, concerns and future under climate change*, Bangalore, August 10, 2016. Attended by policy makers, academics and stakeholders in Arkavathy Basin.

Co-organiser, *Water in Noyyal sub-basin: Status, concerns and future under climate change*, Coimbatore, July 26, 2016. Attended by policy makers, academics and stakeholders in Noyyal Basin.

Moderator and Co-organiser, *Policy Roundtable on Urban Water*, INSEE Conference. 5 January, 2016, Bangalore

Co-organiser, *Linking Robotics, Citizen Science and Remote Sensing to Advance Water Science in Data-Scarce Regions*, Workshop funded by NSF CNIC, US National Science Foundation, June 12, 2015 for technology innovators, researchers and stakeholders in Bangalore.

Organiser, *Addressing knowledge gaps to solve India's Water Problems: Challenges for Hydrologic Sciences* on January 8th 2015. Attended by 20 Indian hydrologists.

TEACHING

- *Course Co-Instructor, ATREE: Interdisciplinary Methods, Spring 2014, 2016, 2018:* This core course is meant to help students understand how to carry out interdisciplinary research on the environment. It focuses on the challenge of linking and integrating this knowledge to study society-environment interactions holistically. I helped lead a two class discussions for this course.
- *Course Instructor, ATREE: Basic Mathematics, Fall 2013, 2015, 2017:* The purpose of this graduate level class was to provide a review of the fundamentals of Mathematics needed to understand quantitative methods in environmental, social and ecological sciences.
- *Course Co-Instructor, ATREE: Environmental Science, Fall 2013, 2015, 2017:* This course introduced students to the fundamentals of environmental processes at global, regional and local scales using a biogeochemical framework. The course involved both theory and application of the concepts to real-world environmental problems via doing field, laboratory and computer exercises in environmental sciences.
- *Course Instructor, Stanford University: Global Freshwater Challenges and Opportunities, Spring 2012:* The purpose of this graduate level class was to help students navigate through the vast, complex landscape of the water sector. This class was designed for students interested in careers in consulting, advocacy, government, philanthropy and business. Each week an eminent speaker was invited to reflect on a major issue and solution, followed by a separate class discussion session with additional readings on the topic.

- *Course Instructor, Stanford University: Interdisciplinary Research Design, Winter 2010:* The purpose of this class is to "bring to life" research design theory and practice. Each week, the class featured an invited Stanford faculty whose own research exemplifies a particular research design tradition. This was followed by a class discussion about the research design and process.
- *Course Assistant, Stanford University: Sustainable Water Resources Management – Spring 2004:* Course Assistant for this graduate-level seminar course in Civil and Environmental Engineering students in Spring 2004.
- *Teaching Assistant, Boston University: Dynamic Modelling, Fall 1997:* The class was a modelling class based on the STELLA dynamic modelling software.

PROFESSIONAL MEMBERSHIPS

American Geophysical Union (Member since 2008)
European Geophysical Union (Member since 2017)
International Association of Hydrologic Sciences (Member since 2016)
International Association for Hydrogeologists (Member since 2016)
Indian Society for Ecological Economics (Life Member)

ACADEMIC ADVISING

PhD Students (Primary Adviser)

- Lakshmikantha, PhD Student
- Amrutha Pradhan, PhD Student
- Neha Khandekar, PhD Student
- Rashmi Kulrajan, PhD Student

PhD students (Dissertation committee member)

- Gopal Penny, PhD Student, University of California, Berkeley (Streamflow generation processes in TG Halli catchment)
- Rinan Shah, PhD Student, ATREE (Water institutions and conflicts in Darjeeling)
- Jyothi Nair, PhD Student, ATREE (Adaptation and Vulnerability in Cauvery Delta)
- Vivek M. PhD Student, Indian Institute of Management, Bangalore (Behavioural economics research on water conservation)

Post-doctoral scholars mentored

- Shaakir Shabar Dar (Hydrology Modelling)
- Dipak Samal, Post doc at ATREE (Watershed hydrology)
- Vani Krishnan (RS/GIS)
- Somsubhra Chattopadhyay (Isotope hydrology)

Research Associates mentored

- Kirubaharan Jeremiah (Role of check dams in hydrologic partitioning)
- Apoorva R. (Determinants of commercial/industrial water use in Bangalore)
- Parvathy Menon and Rahul Varier (Future of Noyyal watershed under urbanization and climate change)
- Sayan Roy (Hydrology of Bangalore's Lakes)
- Mrinalini Bakshi (Urban planning and governance around Bangalore's Lakes)

PROFESSIONAL SERVICE

Editorial

- Editorial Advisory Board of Anthem Publisher's Science Diplomacy: Managing Food, Energy and Water Sustainably

- Review Editor, Frontiers in Water

- Guest Editor for Special Issue of the journal Hydrology and Earth System Science (HESS) on "Predictions Under Change: Water, Earth, and Biota in the Anthropocene"

Review

- Reviewer for Nature Communications, Proceedings of the National Academy of Sciences, Water Resources Research, Hydrology and Earth System Science, Hydrologic Processes, Water International, Journal of Water Resources and Planning and Management, Journal of Hydrologic Engineering, Hydrologic Sciences Journal, Journal of Hydrology, Current Opinion in Environment and Sustainability, Current Science.

Leadership

- Member Strategic Advisory Group for SDG6, UN Water

- Resource Person, National Water Mission

- Leadership team, Panta-Rhei Initiative of the International Association of Hydrologic Sciences

- Steering Committee, Forum for Water Conflicts in India

INSTITUTIONAL SERVICE

- ATREE Executive Committee (elected member 2017-2019)

- Faculty Representative on ATREE Governing Board (Feb. 2017 – April 2019)

- Chair, Sexual Harassment Committee

- Chair, Media Committee

- Member, Eco-informatics Committee, Human Resources Committee