

T. Jayaraman

tjayaraman@gmail.com

Experience

Current Position Jul. 2008 – Present

Professor, School of Habitat Studies,
Tata Institute of Social Sciences Mumbai, India

Current Responsibilities

Dean, School of Habitat Studies.
Chairperson, Computer Centre

Earlier Positions

October 2006 – June 2008

Visiting Professor,
Tata Institute of Social Sciences Mumbai, India

Sept. 2003-Sept 2006

Visiting Scientist (Theoretical Physics Group and School of Mathematics),
Tata Institute of Fundamental Research, Mumbai.

Aug. 2002 – Aug. 2003

Professor, Theoretical High-Energy Physics Group,
Institute of Mathematical Sciences Chennai, India

Jul. 1994 - Aug. 2002

Reader, Institute of Mathematical Sciences

Jan. 1991 - Aug. 1994

Fellow, Institute of Mathematical Sciences

Current Areas of Research Interest :

- Climate Change Related Issues including Climate Policy, Energy Issues, Global Mitigation and Carbon Budgets, and Vulnerability and Adaptation.
- Sustainability Studies with special emphasis on equity.
- Science and Technology Policy in advanced science and technology sectors including Nuclear Policy.
- Innovation Policies and Issues.

Executive Committee Membership/other official positions :

- Member, Research Board, M. S. Swaminathan Research Foundation.
(2014 onwards)
 - Member, Editorial Board, Review of Agrarian Studies.
(2014 onwards)
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- Member, Sustainable Development of MOU Task Force for the Petroleum and Gas Syndicate, Dept of Public Enterprises, Govt. of India, New Delhi.

(2012-2013)

- Member of PPEC, Indian Statistical Institute, Kolkata. (2011-12).
- Participant, BASIC Experts' Group, nominated by Ministry of Environment and Forests, Government of India (July 2010 – Nov. 2011)

Conferences and Workshops organised:

- International Workshop on 'Equity, Sustainability and Climate Change' in Sept. 2011 in New Delhi, sponsored by Ministry of Environment and Forests, Government of India.
- AIPSN National Workshop on 'Consultation towards Policy Formulation, Popular Material Preparation and Advocacy of Climate Change' in March 2011 in Mumbai, sponsored by Climate Works Foundation.
- SANPAD Thematic Conference on 'Energy, Climate Change and Sustainable Development' in March 2011 in Mumbai, sponsored by South Africa-Netherlands Research Programme on Alternatives in Development.
- Visit of the delegation from Development Research Centre, State Council of the People's Republic of China in November 2011 in Mumbai, sponsored by TISS and DRC.
- BASIC Countries Experts Meeting organized at New Delhi, sponsored by Ministry of Environment and Forests, Govt. of India, 26-27 February 2011.
- Side Event at the UNFCCC COP 16 on "Equitable Access to Carbon Space", at Cancun, Mexico, sponsored by Ministry of Environment and Forests, Govt. of India, December 2010
- "Global Carbon Budgets: Equity in Climate Change", organized at TISS, sponsored by Ministry of Environment and Forests, Govt. of India, 28-29 June 2010.
- Workshop on "Breaking the Climate Deadlock: Towards a New Climate Policy for India, organised at TISS, July 31-Aug.1, 2009.
- Workshop on "Unpacking Climate Change: A 3-day teach-in on global warming, its impact, energy policies and policy responses." organised at TISS, April 18-20, 2008.

Outreach and Advocacy :

- Project Director, Assam Disaster Management Training Programme, (TISS-ASDMA Project) (2011-2013).
 - Project Director, Preparation of the Jammu and Kashmir State Disaster Management Plan (ongoing).
 - Project Director, TISS-IFRC Online Course on Disaster Management. (current).
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Teaching:

- Optional course titled "Science, Technology and India's Development Experience" for M. Phil., offered occasionally.
- Optional course titled "Perspectives in Science, Technology and Society" for M. A. (Development Studies), offered every year in I semester.
- Compulsory course titled "Sustainable development and climate change", for M. A. (Development Studies), offered every year in IV semester.
- Taught concentration on Climate Change in M.A./MSc. in Habitat Policy and Practice.
- Formulated a new course titled, "M.A. / MSc. In Climate Change and Sustainable Development" with other colleagues.
- New courses to be taught including Ecosystems and Habitats.
- Ph.D. Supervision – 8 (Current)
- M.Phil Supervision – 7 (Completed), 1 (Current)
- M.A. Dissertations – Several

Publications*Chapters in Books*

- Jayaraman, T., Kanitkar, T., D'Souza, M., 'Equity and burden sharing in emission scenarios: a carbon budget approach' published in Handbook of Climate Change and India: Development, Politics and Governance, Dubash N.K. (ed), Nov. 2011, Routledge
<http://www.cprindia.org/seminars-conferences/3364-handbook-climate-change-and-india-development-politics-and-governance>
- Jayaraman, T., Kanitkar, T., D'Souza, M., 'Equitable access to sustainable development: An Indian approach', published in 'Equitable access to sustainable development: Contribution to the body of scientific knowledge', A paper by experts from BASIC countries, Winkler H. et al., 2011
<http://www.prayaspace.org/peg/publications/item/download/371.html>

Publications in Journals etc.

- Jayaraman T. and Murari, Kamal, "Climate Change and Agriculture: Current and Future Trends and Implications for India," Review of Agrarian Studies.
- Kanitkar Tejal, Jayaraman T., D'Souza Mario, Purkayastha Prabir, "Carbon budgets for climate change mitigation: A GAMS-based emissions model," Current Science, Vol. 104, No. 9, p. 1200, May 2013
- Jayaraman T., 'Holding back the 'Green Economy' Idea, but for how long?' Economic & Political Weekly, Vol. XLVII, No. 28, July 14, 2012.
- Jayaraman T., Kohli Divya Singh, Mittal Shruti, 'Rio +20, What is at stake', Economic & Political Weekly, Vol. XLVII, No. 23, June 9, 2012.
- Jayaraman T., 'Climate Change and Agriculture: A Review Article with Special

Reference to India', Review of Agrarian Studies, Vol. 1, No. 2, July-December, 2011

<http://www.ras.org.in/index.php?Token=d860edd1dd83b36f02ce52bde626c653>

- Lele S. & Jayaraman T., 'Equity in the context of Sustainable Development', Background paper submitted to Ministry of Environment and Forests, Government of India for presentation at the UN High-Level Panel on Global Sustainability, May 2011
http://atree.academia.edu/SharadLele/Papers/883412/Equity_in_the_context_of_Sustainable_Development
- Global Carbon Budgets and Burden Sharing in Mitigation Actions: Discussion Paper, Supplementary Notes and Summary Report', Jun. 2010
http://climate.tiss.edu/attachments/carbon-budgets-2010/at_download/file
- Jayaraman T., Kanitkar, T., D'Souza, M., 'Deconstructing the Climate Blame Game', Economic & Political Weekly, Vol. XLV No. 1, Jan. 2, 2010
www.epw.org.in/epw/uploads/articles/14306.pdf
- Jayaraman T., 'Will It Be a US Endgame at Copenhagen?', Economic & Political Weekly, Vol. XLIV No. 50, Dec. 12, 2009
<http://www.epw.in/epw/uploads/articles/14232.pdf>
- Jayaraman T., 'Swinging from Inaction to Capitulation on Climate Policy', Economic & Political Weekly, Vol. XLIV No. 43, Oct. 24, 2009
www.epw.in/epw/uploads/articles/14060.pdf
- Kanitkar, T., Jayaraman, T., D'Souza, M., Purkayastha, P., Raghunandan, D., Talwar, R., 'How Much 'Carbon Space' Do We Have? Physical Constraints on India's Climate Policy and Its Implications', Economic & Political Weekly, Vol XLIV No. 41, Oct. 10, 2009
<http://www.epw.in/epw/uploads/articles/14044.pdf>
- T. Jayaraman, "Science, Technology and Innovation Policy under Economic Reform: A Survey" Invited paper presented to the conference on The Crisis of Neo-Liberalism in India: Challenges and Alternatives, organized by TISS and IDEAs, 13-15 March, 2009. Available on the net at <http://www.networkideas.org/ideasact/jan09/PDF/Jayaraman.pdf>.
- T. Jayaraman, "Does India need a Bayh-Dole Act: Misplaced priorities in STI policy," Paper presented to the International Conference on Science, Technology and Economy: Emerging and Developed Countries, organized by the Forum for Global Knowledge Sharing and TISS, 9-10, Oct. 2009. Available on the net at <http://knowledgeforum.tifac.org.in/viewArticle.php?id=106>.

Commentary and Analyses in Print Media

- Jayaraman T., 'Post-Durban, India has its task cut out', The Hindu, Dec. 20, 2011
<http://www.thehindu.com/opinion/lead/article2729539.ece>
 - Jayaraman T., 'Taking stock of Copenhagen', The Hindu, Dec. 24, 2009
<http://www.thehindu.com/opinion/op-ed/article70042.ece>
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- Jayaraman T., 'Carbon alert', Frontline, Volume 26 - Issue 25, Dec. 05-18, 2009
<http://www.frontline.in/fl2625/stories/20091218262502800.htm>
 - Jayaraman T., 'India's strategy at Copenhagen', The Hindu, Nov. 26, 2009
<http://www.hindu.com/2009/11/27/stories/2009112756100800.htm>
 - Jayaraman T., 'Keeping India's options open at Copenhagen', The Hindu, Oct. 29, 2009
<http://www.thehindu.com/opinion/lead/article40039.ece>
 - Raghunandan, D., Purkayastha, P., Jayaraman, T., 'Breaking the climate deadlock', The Hindu, Jun. 23, 2009
<http://www.hindu.com/2009/06/23/stories/2009062353970800.htm>
 - T. Jayaraman and R. Ramachandran, Solving a conjecture, Frontline magazine, Vol. 23, No. 17, August 26, 2006.
 - August 1998, pp. 60-64.
 - T. Jayaraman, Obscurantism vs. Science: Behind the Milk-drinking Miracle, Frontline magazine, circa 1996, available at <http://www.imsc.res.in/~jayaram>.
 - T. Jayaraman, Celebrating the Eclipse: Taking Science to the People, Frontline magazine, circa 1995, available at <http://www.imsc.res.in/~jayaram>.
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Talks and Presentations in Conferences /Workshops/ Seminars :

- Presentation on 'India's Climate Policy – Durban and After' at NIAS Roundtable on Climate Policy organised by National Institute of Advanced Studies (NIAS), Bengaluru, March 2012.
 - Main speaker at India's Climate Policy after Durban organised by INECC and Bangalore Platform on Climate Change, Bengaluru, March 2012.
 - Invited talk on 'Climate Policy - Towards an Adequate Strategic Perspective' at the 14th Asian Security Conference organised by Institute of Defence Studies and Analysis, New Delhi, Feb. 2012.
 - BASIC Experts Meeting as presenter, discussant, and for final report writing, organised by Chinese Academy of Social Sciences and Govt. of PRC, Beijing, China, Oct. 2011.
 - Invited talk on 'Carbon Budgets and India's Climate Policy Asian Climate Change - Trends & Policy' organised by Divecha Centre for Climate Change, IISc, Bengaluru, July 2011.
 - BASIC Experts Meeting as presenter, discussant, and for final report writing, organised by Energy Research Centre and Govt. of South Africa, Zimbali, South Africa, May 2011.
 - Stakeholder consultation on the 'APHDR on Climate Change & Stakeholder Consultation on the global HDR on Sustainable Development' for interventions and comments, organised by UNDP, New Delhi, April 2011.
 - Presented an invited paper on "Global carbon budgets, emissions trajectories and burden sharing in mitigation" in CASS Workshop on Carbon Budgets organised by
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Chinese Academy of Social Sciences, Beijing, China, 15-16 April 2010.

Educational Qualifications

- Ph.D. (Theoretical Physics), University of Madras, Chennai, 1983.
- MSc. (Physics), University of Madras, Chennai, 1976.
- BSc. (Special) (Physics), Madurai Kamaraj University, Madurai, 1974.
- Indian School Certificate Examination, Loyola School, Jamshedpur, 1971.

Other Academic Matters

- Number of Ph.D. Thesis supervised: 3 (Dr. Varghese John; Dr. Tapobrata Sarkar; Dr. Bobby Vinod Kr. Ezhuthachan)
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