

Curriculum Vitae

PURNAMITA DASGUPTA

PERMANENT AFFILIATION AND ADDRESS

Ford Foundation Chair in Environmental & Resource Economics
Institute of Economic Growth (IEG), University of Delhi Enclave,
Delhi 110007, India

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RESEARCH INTEREST AND SPECIALIZATION

Environmental and Natural Resource Economics, Health Economics,
Development Economics, Research Methods

PROFESSIONAL ACTIVITIES

Grants and Fellowships

- Visiting Professor, John Carey Business School, Johns Hopkins University, USA, 2010-2011
- L.M. Singhvi Visiting Professor at the Centre of South Asian Studies, University of Cambridge, UK (Easter / Summer 2007)
- Visiting Fellow, Centre on Economics of Globalization and Sustainable Development, Department of Economics, University of Calcutta, Kolkata, 2009-10
- Led research in projects funded by various agencies, both international and national, such as DFID (UK), World Bank, UNDP, ICSSR, CGIAR, Ministry of Environment and Forests (GOI), South Asian Network for Environment and Development Economics (SANDEE), etc,
- National Scholarship, for Masters (M. A. in Economics).

Advisory Positions

- Member, Scientific Steering Group on "Economic Valuation, Costing and Ethics," Intergovernmental Panel on Climate Change (IPCC), 2011
- Policy Research Committee, ICFRE, MoEF, GOI.
- Co-ordinating Lead Author, Chapter 9, Rural Areas, IPCC, Working Group II, AR5 (2010-2014).
- Member of the Expert Committee on E-Waste Regulation, set up by the Ministry of Environment and Forests, Government of India, 2009-10

- Member of the Working Group to draft Regulation of E-waste Management set up by Ministry of Environment and Forests, Government of India, 2009-10
- Member of the Working Group on Security Implications of Climate Change, Institute for Defence Studies Analysis, New Delhi, 2008-2009.
- Member of the Executive Committee of the Indian Society for Ecological Economics, 2008 – 2010.
- Member Secretary of the Expert Committee on “NPV to be charged on forest lands diverted for non-forestry purposes,” constituted by the Institute of Economic Growth, Delhi, in pursuance of Supreme Court of India directive, 2006

SELECTED PUBLICATIONS¹

Chapters in Edited Volumes

- “Rural Areas” Chapter 9, Report of the Working Group on Adaptation, WGII, AR 5, Intergovernmental Panel on Climate Change, IPCC, Geneva (*forthcoming*)
- “Measuring Environmental Sustainability with Macroeconomic Data for India,” in Essays in Honour of V. K. R. V. Rao, (ed.) B. N. Goldar, P.B. Nayak and P. Agarwal, Sage Publications, 2010.
- “The Economic Value of Forests”, chapter for the Indian Forestry Development Report, 2010, Ministry of Environment and Forests, Government of India (*submitted*).
- “Valuation of Ecosystem Services: Methodologies, Illustrations and Use” in Handbook of Environmental Economics in India, (ed) K. Chopra and V. Dayal, Oxford University Press, 2009.
- “Economics and Climate Change: Some Relevant Aspects for Human Security in India” in Security Challenges and Implications of Climate Change for India, Academic Foundation, 2009.
- “Conservation and Poverty Alleviation: Some recent evidence from Himachal Pradesh on the implications of interventions for rural women” in Gender Issues in Development, Concerns for the 21st century (ed) Das and Khawas, Rawat Publications, 2009.
- “Demand for Curative Health Care in Rural India: Choosing between Private, Public and No Care” in A. Shariff and M. Krishnaraj (ed.) “State, Market and Inequalities: Human Development in Rural India,” Orient Longman, 2007.
- “Household Water Services in Incomplete Markets: Managing Water Stress for the Urban Poor” in Managing Water Resources (eds) Ratna Reddy and S. Mahendra Dev, Oxford University Press, 2006.
- “Urban Poverty and Slums: Access to Basic Amenities,” in R. Sharma (ed) Urban Poverty: An introduction, ICFAI University Press, 2006.

¹ Some are co-authored

- “Urban Water Supply and Sanitation,” in U. Sankar and O.P. Mathur (ed.), Economic Instruments for Environment Sustainability, National Institute of Public Finance and Policy, Delhi and Madras School of Economics, Chennai, 1998.

Journals

- “Low Carbon Growth: An Indian perspective on Sustainability and Technology Transfer,” Journal Problems of Sustainable Development, European Academy of Sciences and Arts, vol 1, 2011.
- "Data concerns: Evolving socio economic markers for climate change," Climate Change and Human Development, Asia Pacific Human Development Network, UNDP, 2011
(http://hdru.aprc.undp.org/ext/HDRU/consolidate_climate.php).
- “Trade, Technology Transfer and Climate Change,” Economic and Political Weekly, Vol. 45, No.3, January 2010
- “A Nobel for the Commons: A Tribute to Elinor Ostrom,” Economic and Political Weekly, Vol 44, Nov. 7, 2009
- “Model for assessing economic and ecosystem services contribution of forests,” International Forestry Review, December 2008.
- “The Nature of Household Dependence on Common Pool Resources: An Econometric Study for India,” Economic and Political Weekly, Vol 43, no.8, February 23-29, 2008
- “Measuring Genuine Investment: A Concept Paper for India,” Journal of Income and Wealth, 2006
- “Female Labour Supply in Rural India: An econometric analysis.” Indian Journal of Labour Economics, vol. 49, No. 2, 2006
- “Valuing Health Damages from Water Pollution in Urban Delhi, India: A Health Production Function Approach,” Environment and Development Economics, Cambridge University Press, Vol 9 (1), 2004.
- “Economic value of safe water for the infrastructurally disadvantaged urban household: A case study in Delhi, India,” Water Resources Research, AGU, November, Vol 40 (11), 2004
- “Health of the Elderly in India: Some Aspects of Vulnerability” BOLD, Quarterly Journal of the International Institute on Ageing, United Nations - Malta, Vol 11, no.3.(May), 2001
- “Health Seeking Behaviour in Urban Delhi : An Exploratory Study.” World Health and Population, Volume3, no.2, 2000, Longwoods Publishing Ltd.
- “Child Health and Immunization.” Economic and Political Weekly. February 26th, Vol xxxv, nos. 8 & 9, 2000.
- “Water Resources, Sustainable Livelihoods and Eco-System Functions.” Economic and Political Weekly, May 4-10, 2002.

Working Papers

- “Indian Agricultural Scenario and Food Security Concerns in the context of Climate Change: A Review,” MPRA paper, University Library of Munich, 2011.
- “Economic Challenges in Technology Transfer for Tackling Climate Change in India,” Working paper for the Ministry of Environment and Forests, Government of India, 2010.
- “Impacting Livelihoods through Institutional Innovations: Income and food security from the Forest Rights Act.” IPPG Discussion paper number 50, University of Manchester, UK, September 2010.
- “Redressing 'historical injustice' through the Indian Forest Rights Act 2006: A Historical Institutional analysis of contemporary forest rights reform”; September 2009. IPPG Discussion Paper Series, Number 27.
- “Will India’s Attainment of MDGs be an Inclusive Process?” Volume III Number 02, Indian Institute of Dalit Studies, 2009.
- “Evaluation of the Rewarding Upland Poor for Environmental Services (RUPES) programme,” RUPES Working Paper, ICRAF, World Agroforestry Centre, Bogor, Indonesia, 2007
- “Common Pool Resources as Development Drivers: A Case Study of NTFPs in Himachal Pradesh, India”, SANDEE Working Paper no. 15-2006. (Also part of ‘Rural Common Property in a Perspective of Development and Modernization,’ FAO Land Tenure Service, the Collective Action on Property Rights initiative (CAPRI) and the International Land Coalition (ILC).
- “Hope and Despair: The Criticality of Data on Climate Change,” Central Statistical Organisation, Delhi, 2009.
- “The Nature of Household Dependence on Common Pool Resources: An Econometric Study for India,” Working paper series no. E/232/2003, Institute of Economic Growth, Delhi.
- “Energy Consumption, Air Pollution and Sustainable Development: An Analysis of Household Sector.” Proceedings of the National Conference on Environment and Industry, Calcutta, October 8-9, 1993.

SELECTED CONFERENCE PAPERS AND PRESENTATIONS (*Last 5 years*)

- “Macroeconomics of Measuring the Environment” at ‘Pathways to Interdisciplinarity: Analysing the Interface of Nature, Economy and

Society' UNEP_INSEE Pre-Conference Workshop, Sixth Biennial Conference of INSEE, Hyderabad, October 2011.

- "Beneficiary and Governance Concerns in Promoting Carbon Services," International Conference on Green Economy and Sustainable Mountain Development, ICIMOD, Kathmandu, Nepal, September 2011.
- "Welfare and Equity in Climate Change," International Workshop on Equity, Sustainability and Climate Change, MoEF and TISS, New Delhi, August 2011.
- "Economic valuation of ecosystem services," Course for Engineers without Borders, UK Nepal and India, Centre for Science and environment, August 2011.
- "Tackling food security concerns in a changing climate," Mimeo, July 2011, (co-author)
- "Water and Health," Department of Geography and Environmental Engineering, J.H.U, USA.
- "Climate Change and Socio-Economic Development in India," Department of Global Ecology, COLA, IGES, USA, November 2010.
- "Future Socio-Economic Scenarios and Climate Change in India," Stanford University, USA, November 2010.
- "Development Pathways: Lessons from History," Workshop on Socio-economic Scenarios, Berlin, November 2010.
- "Economic Valuation of Forests," Johns Hopkins Carey Business School, Johns Hopkins University, USA, October 2010.
- "Climate Change and socio-economic Development." CEPT University, Ahmedabad, July 2, 2010
- "Macroeconomic Approach to Sustainability," Seminar on Issues of Globalization and Sustainability, Kolkata University. December 2010.
- "Green Economy-Challenges and Responses to Changing Conditions," NISTADs and ILO, Delhi, December 2010.
- "Economic Context of Forest Values for Climate Change," National Conference on Forestry Solutions, HP Forest Department, Shimla, November 2009
- "Sustainable food security: Some issues in the context of climate change," Write-up for Conference on Food Security and Sustainability in India, GAD Institute of Development Studies, Amritsar, November 2009.
- "Climate Change and Socio-economic development: an urban context," GOI and Centre for Media Studies, October 2009
- "Future Socio Economic Scenarios for India," National Workshop on Climate Change, MoEF, New Delhi, October, 2009 (www.moef.nic.in)
- "Economic Valuation of Ecosystem Services," Inaugural key note address, Ecofest Delhi University, September 2009.

- “Understanding the Future Costs and Adaptation to Climate Change,” Workshop on Breaking the Climate Deadlock, Tata Institute of Social Sciences, August 2009
- “The *Informalised* Forest Dweller : Institutional dynamics of some recent developments in India.” IEG – CSSSC International Conference on The Informal Sector in South Asia, July 2009.
- “Economic Valuation of Forest Ecosystem Services” at Indira Gandhi National Forest Academy, Dehra Dun, September 2007, July 2008, May 2009
- “Socio-Economic Impacts and Climate Change: Data and Modeling Issues,” National Seminar on Climate Change, Data Requirements and Availability, ISEC, Bangalore, April 2009.
- “Sustainable Development for Developing Countries,” Academic Staff College University Teachers Training Programme, J.N.U., March 2009
- “Food and Water Security: Challenges and Adaptive Strategies for India.” Delhi Sustainable Development Summit, New Delhi, February 2009.
- “Situational Analysis of Forest Livelihoods: Insights from Survey Data in West Bengal, Orissa and Andhra Pradesh,” Workshop on the Forest Rights Act, Kurseong, January 2009.
- “Socio-Economic Development and Adaptation,” ESRC-ICSSR Workshop on Sustainability and Climate Change, London School of Economics and Institute of Economic Growth, New Delhi, November 2008.
- “Health and Environmental Concerns in Sustainable Development,” Training Programme on Trade and Sustainable Development, ITEC / SCAAP programme, TERI, November 2008.
- “Net Present Value and Forest Policy in Economic Valuation,” Indira Gandhi National Forest Academy, Dehradun, August 2008
- “Cost Benefit Analysis of Selected Environmental Projects,” Wildlife Institute of India, August 2008
- “The Indian Forest Rights Act 2006, Commoning Enclosures?” Paper at the International Association for the Study of Commons, UK, July 2008.
- “Economics and the Environment,” Faculty Training Programme on Water and Economics, Indian Society for Ecological Economics, March 2008, New Delhi.
- “Mechanisms for Payments for Eco-system Services: Challenges and Opportunities,” Workshop, WWF-India, October 2007.
- “CPRs as Development Drivers,” Centre for South Asian Studies, University of Cambridge, UK, May 2007
- “Common Pool Resources as Development Drivers, NTFPS in H.P.”, National conference on Expanding Freedom: Towards Social and Economic Transformation in a Globalising World, Institute of Economic Growth, Delhi April, 2007.

SEMINARS / WORKSHOPS ORGANISED ON CLIMATE CHANGE

- Review on the Economics of Climate Change, December 2006, ICRIER, New Delhi
- Economic Consequences of Global Climate Change for India, ICRIER, New Delhi.
- Environmental Sustainability and Climate Change, LSE – IEG workshop, IIC, New Delhi, November 2008.
- Future Socio-economic Scenarios and Climate Change, March 2010, IEG, Delhi
- From Kyoto to Copenhagen and Beyond, April 2010, IEG, Delhi

MEMBERSHIP OF PROFESSIONAL BODIES

The European Association for Environmental and Resource Economics
The International Society for Ecological Economics
The Indian Econometric Society
The Indian Society for Ecological Economics

JOURNAL REFEREE

Book Reviews and Review of Articles for Journals - Environment and Development Economics, Environment and Resource Economics, Ecological Economics, Asia-Pacific Economic Literature IIMB Management Review, Conservation and Society, Review of Urban and Regional development Studies, Contributions to Indian Sociology, Down to Earth, Feminist Economics, etc.

TEACHING EXPERIENCE

- Economic Methods for Environmental Valuation, Johns Hopkins University, USA, 2011.
- Environmental Economics and Applied Econometrics to probationers in the Indian Administrative Services, Indian Forest Service and Indian Economic Services.
- Module on Valuation of Forest Ecosystem Services at Indira Gandhi National Forest Academy, Dehradun
- Guest lectures in Environmental Economics and on Quantitative Methods at Jawaharlal Nehru University, New Delhi.
- At TERI University : Taught economics (Basic principles, advanced courses in environmental and resource economics) to both students with a background in economics and those pursuing inter-disciplinary masters and PhD programmes
- Designing and structuring of courses and grading systems: Johns Hopkins University, Delhi University, TERI University.
- PhD Supervision - Currently three students; Topics – (a) Green Buildings in Indian Cities (Delhi University); (b) Economic Costing of Health Impacts from

Malaria in Chennai (Delhi University); (c) Energy use in farming in India (Jawaharlal Nehru University, Delhi)

EDUCATION

- PhD: "Economic Issues Relating to Water Contamination and Waste Disposal: A Case Analysis of Urban Development in Delhi," Centre for Economic Studies and Planning, Jawaharlal Nehru University, New Delhi, India.
- M. Phil: "Energy Demand Projections and Emissions of Air Pollutants: A Sectoral Analysis for India," Centre for Economic Studies and Planning, Jawaharlal Nehru University, New Delhi, India.

OTHER ACADEMIC INTERESTS AND ACTIVITIES:

- Teaching at training programmes, workshops and seminars within India and abroad for research and teaching purposes. The institutions in India where I have delivered lectures include Jawaharlal Nehru University (New Delhi), Shimla University (Shimla), Manipur University, Jadavpur University, Kolkata University, Wildlife Institute of India (Dehradun), National Institute of Public Finance and Policy (Delhi), Indian Institute of Forest Management (Bhopal), Indian Institute of Technology (IIT), Indira Gandhi National Forest Academy (Dehradun), Centre for Science and Environment (Delhi), Academic Staff College, JNU.
- Writing in Media - Economic Times, Ananda Bazar Patrika
- External examiner (M.A./ M.Phil/ PhD) at Jawaharlal Nehru University, Delhi University and National Dairy Research Institute, Karnal
- Jury member and Advisor, UK Environment Film Fellowships; CMS Vatavaran Awards, speaker and panelist at book launch and academic events organised by colleges and students of Delhi university
- Consultation, Review of research proposals and research reports for national and international agencies
- Interest in Multidisciplinary research - Experience of working in multidisciplinary teams with researchers from various disciplinary backgrounds including economics, law, sociology, geography, forestry and management science. My own research has drawn upon other disciplines such as epidemiology, ecology, psychology and forestry.
- Skills in Applied Research Methods - use of both *quantitative and qualitative techniques and approaches of analysis*; experience with primary data as well as secondary data with advanced econometric/modelling software.
- 2009-2010: Faculty contact person for 2 overseas PhD Students affiliated at IEG from (a) Department of Geography, University of Cambridge, UK and (b) Indiana University, Bloomington, USA
- Member of various Administrative Committees and Selection Committees in the Institute of Economic Growth

- Experience in organising workshops, faculty up-gradation course and training programmes at the Institute of Economic Growth. This activity includes: designing of relevant course curricula in consultation with other experts, research and compilation of course material, identifying and interacting with resource persons and candidates for the programme, co-ordinating with and supervising administrative staff for logistics.
- Language proficiency : Excellent spoken, written and reading skills in English, Bengali and Hindi

SELECTED RECENT CONFERENCE/WORKSHOP PARTICIPATION

- SSG (Chair, Rapporteur and Synthesis session presentation) member at IPCC Expert Meeting on Economic Analysis, Costing and Ethics, Lima, Peru, June 2011.
- Workshop on Public Policy for environmental economists, Bangkok, May 22-24, organized by SANDEE.
- Meeting of the Core Group on National Mission for a Green India, Indian International Centre, March 2010
- Round table on Research priorities on Climate Change in South Asia, IDRC, April 2010, Delhi
- Research proposal writing workshop, Grantham Research Institute, London School of Economics and Political Science, London, October 2009.
- India China Declaration on Climate Change, MoEF, Government of India, October 2009
- Managing Ecosystem Services for Poverty Alleviation, SCAPES Consortium Workshop, October 2009
- Workshop on Costs of Adaptation to Climate Change, TERI, September 2009.
- Round Table on National Action Plan on Climate Change, Delhi, August 2008.
- Food and Water Security: Challenges and Adaptive Strategies for India. Delhi Sustainable Development Summit, New Delhi, February 2009.
- Global Event on Payment for Environmental Services, Organised by the World Agroforestry Centre, RECOFTC, IFPRI, etc. Lombok, Indonesia, January 2007
- Impact of Climate Change in India, Indo-UK collaborative project workshop, organized by Department for Environment, Food and Rural Affairs, UK and Ministry of Environment and Forests, India, January 2007
- National Workshop on Payments for Ecosystem Services, World Wide Fund for Nature, (WWF), Delhi, February 2007
- Discussion forums/consultations/ Advisory Policy Research Committees for Ministry of Environment and Forests, GOI: ecological security, inclusive growth, valuation of ecosystem goods and services organized by various government and non government agencies – ongoing activity.

- Resource person (Chair/ panelist / discussant) at academic events organized by University of Cambridge, UK, International Association for the Study of Common Property, World Congress of Environmental & Resource Economists, South Asia Network for Development and Environmental Economics (SANDEE), European Association of Environmental and Resource Economists, ICRAF/ CGIAR, International Society for Ecological Economics, etc.

RELEVANT TRAINING

- Advanced (3 weeks) Course on Household Models for Environmental Economics, conducted by Beijer Institute, Sweden and SANDEE, Colombo, June 2003.
- Workshop on Public Policy conducted by Nancy Oleweiler, Simon Fraser University, Canada, at Bangkok, May 2011.

SELECTED PROJECTS AND REPORTS

- “Child Health and Immunization”, Centre for Development Economics, Delhi School of Economics. 1997.
- “Modeling Demand for Health Care in Rural India, UNDP (through NCAER), 1998.
- “Policy Implications of Knowledge on CPRs” (collaboration with University of Cambridge, UK). DFID, UK. 2001.
- “Report on Economic Instruments for Industrial Pollution Prevention and Control in India.” Workshop organised by the World Bank, MoEF and CII, New Delhi, 2001.
- “Common Pool Resources in India: Evidence, Significance and New Management Initiatives.” *Report* published by Institute of Economic Growth and University of Cambridge, UK. 2002.
- “Common Pool Resources as Drivers of Development: A Study of NTFPs in Himachal Pradesh, India.” SANDEE sponsored project, 2003.
- Economic Valuation of Urban Water Services, Indian Council for Social Science Research, 2004.
- Genuine Savings and Genuine Investment for India, Development Planning Centre, IEG. 2005.
- “Net Present Value to be charged on forest land for diversion to non forestry use, Report of the Expert Committee set up in pursuance of Supreme Court of India directive, 2006
- “Understanding Stakeholder Perceptions in Participatory Forest Management in India” DFID sponsored project, 2006.

- “Estimating the Economic Value of Forest Land in Different Bio-Geographic Zones of India.” Report submitted to The Ministry of Environment and Forests, GOI. 2007.
- “Evaluation Study of RUPES (Rewarding Upland Poor for Environmental Services) project.” ICRAF / CGIAR. 2007.
- “How are the Poor Affected by Trade?” Rapporteur’s Report, UNCTAD conference, New Delhi, 2008.
- “Urban Poor and Sustainable Livelihoods,” UNDP – GOI project. 2008.
- Does the Forest Rights Act represent a pro-poor institutional reform? – A study for Institutions for Pro-Poor Growth (IPPG). 2010.
- Developing Future Socio-Economic Scenarios for India in the Context of Climate Change - contribution to India’s Second National Communication to UNFCCC. Report submitted to Ministry of Environment and Forests, Government of India. 2010.