

Curriculum Vitae PURNAMITA DASGUPTA

Permanent Affiliation and Address

Chair Professor & Head, Environmental & Resource Economics Unit,
Institute of Economic Growth, (IEG), University of Delhi Enclave (North Campus), Delhi 110007, India
E-mails: pdg@iegindia.org; purnamita.dasgupta@gmail.com; Fax: +91-11-27667410

Research Interest and Specialization (Total experience: 25+ years)

Environmental and Natural Resource Economics (Primary specialization), Health Economics, Development Economics, Research Methods

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, 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, Delhi, India.
- Post-Graduation: Masters Degree in Economics, Delhi School of Economics, University of Delhi, Delhi
- Graduation: Bachelors Degree in Economics, Presidency College, University of Calcutta, Calcutta

Professional Activities

Grants and Fellowships

- Featured on International Women’s Day 2016 by the Global Water Partnership, (<http://www.gwp.org/en/gwp-south-asia/GWP-SAS-IN-ACTION/News-and-Activities/International-Womens-Day-2016/#>)
- Visiting Professor, Carey Business School, Johns Hopkins University, USA, 2010-2011
- L.M. Singhvi Fellowship and Visiting Professor at the Centre of South Asian Studies, University of Cambridge, UK 2007
- Visiting Fellow, Department of Business Management, University of Calcutta, March 2013; Visiting Fellow, Centre on Economics of Globalization and Sustainable Development, Department of Economics, University of Calcutta, Calcutta, 2009-10

Selected list of recent and relevant Research Assignments/Projects :

Ongoing:

- *PI*: Developing socio-Economic Scenarios for India in the context of Climate Change, *NATCOM*, Ministry of Environment, Forests and Climate Change (MoEFCC), Government of India (GoI).
- *PI*: Valuation of The Commons: Essentials of Managing the Environment. Foundation for Ecological Security
- *Co-PI*: Risks, Returns & Resilience: A Multi-Disciplinary Approach to Climate Change And Agriculture, GoI
- *Co-PI*: Resource Sharing between Centre & States & Allocation across States, 15 Finance Commission, GoI

Recently Completed: (2014-2018)

- *Lead Author*, Sustainable Development, Poverty Eradication and Reducing Inequalities, Chapter 5, Special Report on 1.5 Degree Global Warming, Intergovernmental Panel on Climate Change (IPCC)
- *PI*: Study on Forests & Other Protected Ecosystems in India. The Nature Conservancy, USA.
- *Lead PI*: From traditional fuels to LPG & LED use: Policy instruments for a sustainable transition, Indo-Swiss Joint Research Programme (ICSSR, GoI and SERI)
- *Co-ordinating Lead Author*, Chapter 4, “Growth, Human Development and Planetary Welfare,” International Panel on Social Progress, Cambridge University Press, UK (<http://www.ip-socialprogress.org/people/authors>)
- *Lead Author*, “Mountain Poverty, Vulnerability and Livelihoods,” HIMAP, ICIMOD.
- *Co-PI*, Risk & Vulnerability Analysis of Rural Farm Households in Drought prone & Coastal Areas of India, GoI
- *Co-ordinating Lead Author* Chapter 9 “Rural Areas”, The Intergovernmental Panel on Climate Change, IPCC AR5.
- *Member*, Core Writing Team: Synthesis Report: Climate Change 2014 and Author, Summary for Policy Makers, WG II, IPCC AR5
- *Lead PI*, Modelling Study on Green House Gas Emissions & Emission Intensity of Indian Economy, GoI

- *PI*, Evaluating Impacts of climate change on health: An exploratory study, IDRC
- *PI*, Cost Disabilities for Hill States in India, 14 Finance Commission of India, GoI
- *Author*, Economic Growth and Development in the context of Climate Change: An analysis of macro economic models for India, background paper, the New Climate Economy initiative, 2014.

Selected Honorary / Advisory Positions

- Nominated Member, Internal Working Group, Natural Resource Accounting, Government Accounting Standards Advisory Board (GASAB), CAG, Government of India, May 2019
- Member, Expert Committee for preparation of scale of compensation constituted by the National Green Tribunal, New Delhi, May 2019
- Member, Working Group on Mitigation Instruments, CEEW and EDF
- International Specialist Advisor, CIRCLE fellowship, Association of Commonwealth Universities, University of Greenwich, UK. (2015-2018)
- *Member, Science & Policy Committee*, Collaborative Adaptation Research Initiative Africa & Asia (CARIAA)
- Member, Climate Change and Health Review Committee, Wellcome Trust, 2019
- Member, Research Advisory Committee, CEEW
- Member, Technical Committee, IPCC Scholarships Programme, 2015.
- Member, Advisory Board, DST Centre for Policy Research, BBA Central University, Lucknow, India (2014 onwards)
- Reviewer, Advisory Committee, Report on Climate Change Adaptation and Poverty, World Bank (2014-15)
- Policy Research Committee, ICFRE, Ministry of Environment and Forests (MoEF), GOI (multiple years).
- Member, Scientific Steering Group on “Economic Valuation, Costing and Ethics,” Intergovernmental Panel on Climate Change (IPCC), 2012
- 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 on Security Implications of Climate Change, Institute for Defence Studies Analysis, New Delhi, 2008-2009.
- Member: Editorial Board, *Climatic Change*, Springer & *Climate Risk Management*, Elsevier.

Publications

Book: Climate Sensitive Adaptation in Health: Imperatives for India in a Developing Economy Context
 Publisher: Springer, 2016

Contributions to Edited Volumes (Selected):

- “Sustainable Development, Poverty Eradication and Reducing Inequalities,” Chapter 5, In: Global Warming of 1.5°C. An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels, IPCC, WMO, Geneva, 2018. (Lead Author)
- “Climate Change Impacts on Foodgrain Production in India.” In Vikram Dayal, Anantha Duraiappah and Nandan Nawn Eds. Ecology, Economy and Society. pp 63 - 82. Singapore: Springer, 2018.
- “Growth, Human Development and Planetary Welfare” Chapter 4, In “Rethinking Societies for the 21st Century”, Report of the International Panel on Social Progress, Cambridge University Press (Co-ordinating Lead Author). 2018
- “Poverty and Vulnerability in Mountain Livelihoods,” in HIMAP Comprehensive Assessment of the Hindu Kush Himalayas, Springer Nature, 2018 (co-authors)
- “Valuing Forest Ecosystem Services” in Managing India's Forests in a Changing Climate: Emerging Concepts and their Operationalization, USAID.
- “Economic systems and ecosystems: Interlinkages, co-evolution or disparate movement?” in Ecosystem Functions and Management: Theory and Practise (ed) H. Sandhu, Springer, 2017. (co-author)
- “Mapping Gains and Losses from the Mayur Ecosystem,” in Water Security in Peri-Urban South Asia, (eds) V. Narain, A. Prakash, OUP, 2016. (co-authors)
- Contributions to the Report on the Structured Expert Dialogue on the 2013-2015 - Review: Report of the Subsidiary Body for Scientific & Technological Advice, Framework Convention on Climate Change. Bonn: UN, 2015.
- “Rural Areas”, in Climate Change 2014: Impacts, Adaptation and Vulnerability, (eds) Field, C.B., V.R. Barros, et. al. Cambridge University Press, 2014. (Co-ordinating Lead Author)

- “Summary for Policy Makers, Climate Change 2014: Impacts, Adaptation and Vulnerability,” Intergovernmental Panel on Climate Change, WMO – UNEP, Geneva. (Drafting author)
- Sections on “Benefits and co-benefits, tradeoffs and spillover effects” (Section 3.2.6) and “Interactions between adaptation, mitigation and sustainable development” (Section 4.5), Synthesis Report, AR5, IPCC, UNEP-WMO, 2014. (Co-Lead, Core Writing Team Member)
- “Measuring Environmental Sustainability with Macroeconomic Data for India,” in Essays in Honour of V. K. R. V. Rao, (ed.) Goldar, Nayak and Agarwal, Sage 2010 (co-author).
- “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.

Journals (Selected list):

- Dasgupta, Purnamita (2018). Economic Growth, Social Progress and Planetary Welfare. Focus. The Newsletter. No. 81, Autumn 2018. https://iias.asia/sites/default/files/IIAS_NL81_3435.pdf
- Dasgupta P. and Goldar, B. (2017) Costing for Elevation in Development Expenditure: Illustrative Evidence from India, Journal of Quantitative Economics, doi:10.1007/s40953-017-0103-6.
- Dasgupta P, Ebi K, Sachdeva I (2016) Health Sector Preparedness for Adaptation Planning in India. Climatic Change, 2016. (DOI:10.1007/s10584-016-1745-7)
- Dasgupta P (2015a) Economic Development and the Costs of Climate Change , Yojana. Planning Commission, Government of India. December.
- VenkateshDutta, PurnamitaDasgupta, Nathan Hultman&GayatriGadag (2015): Evaluating expert opinion on India's climate policy: opportunities and barriers to low-carbon inclusive growth, Climate and Development, DOI: 10.1080/17565529.2015.1067181, July 2015 .
- Nwachukwu, I.N., 1 Shisanya, C.A., Dasgupta, P and Mbanasor, J.A.(2015) Socioeconomic response patterns of farmers to climate change in Africa, Nigeria Agricultural Journal, 46(1), 147-154.
- RajibDasgupta, PurnamitaDasgupta, AnkushAgarwal Decline in Immunization Coverage Across Well-performing Districts in India" Indian Journal of Paediatrics, September 2014, Volume 81, Issue 9.
- PurnamitaDasgupta (2013) Land Access and Food Security for Forest Dwellers: An Economic Analysis for India” Problems of Sustainable Development, European Academy of Sciences and Arts, vol8, no.2.
- PurnamitaDasgupta, A.Kumari and D.Bhattacharya (2013)Socio-Economic Analysis of Climate Change Impacts on Foodgrain Production in Indian States, Environmental Development, vol 8, 2013.
- PurnamitaDasgupta, NishaTaneja(2011) Low Carbon Growth: An Indian perspective on Sustainability and Technology Transfer, Problems of Sustainable Development, European Academy of Sciences and Arts, vol 1, 2011.
- PurnamitaDasgupta (2011)Data concerns: Evolving socio economic markers for climate change, Climate Change and Human Development, Asia Pacific Human Development Network, UNDP, 2011
- NishaTaneja and PurnamitaDasguptaTrade, Technology Transfer and Climate Change, Economic and Political Weekly, Vol - XLV No. 03, January 16, 2010.
- Chopra, Kanchan, Dasgupta, Purnamita (2008) Model for assessing economic and ecosystem services contribution of forests, International Forestry Review, December 2008.
- PurnamitaDasgupta (2004) Valuing Health Damages from Water Pollution in Urban Delhi, India: A Health Production Function Approach, Environment and Development Economics, Vol 9 (1).

Selected recent media writings / interviews:

- Down to Earth: Drought Aggravates Poverty, Opinion piece, 2019.
- The Indian Express: Next Step to Clean Fuel, Op-ed. 2019
- The Nikkei: Economic Growth and Social Progress, 2018
- Le Monde: Capitalism and Economic Growth – Friend or Foe?
- The Third Pole: The role of women in Climate Science.
- The Third Pole: Eco-san toilets provide hope in flooded Bihar
- Economic Times: “IPCC’s report on climate change brings an opportunity and challenge for India”
- Sciencedevnet: “Three ways to Strengthen IPCC reports”

- The Hindu: “UN Climate Change panel calls for phasing out fossil fuels.”
- India Today: “Climate Change behind food production impacts in India”
- Indian Express: “Green Panel Report Sets off Global Warming Alarm.”
- The Economic Times: “Climate Change to Adversely Affect People's Health.”
- German Radio: Interview: “Dasgupta: The poor are the losers”
- RTCC News: “UN Science Panel releases climate science report – As it Happened”
- India Today: “India at Risk: Cant undermine sustainable development”

Working Papers/ Drafts (Other than those published in journals/books)

- “Cost Effective Adaptation to Flood: Sanitation interventions in the Gandak River Basin” (with S. Sahay, A. Prakash, A. Lutz) (*under review*)
- “Environment and Economic Development: An Analysis of Electricity Demand Projections for India,” in Aggarwal et al ed. Accelerators of India’s Growth, Springer Nature, (with C. Chaudhuri) *forthcoming*.
- “Economic Growth and Sustainability: The multidimensionality of social progress”, for IER journal, (Accepted March 2019), *forthcoming*
- "Realizing SDGs and SSPs: Growth, Poverty and Inequality Implications for India" , 11th Annual Integrated Assessment Modeling Consortium (IAMC) Meeting, November 13th-15th, 2018, Seville, Spain (with Manoj Panda, Rohan Bansal, Samraj Sahay) (*draft*)
- “Perception of Cassava-Based Farmers to Climate Variability in the Rain Forest and derived Savannah Ecosystems of Nigeria”, (with F. O. Ayinde, P.A. Johnston, O. Olujimi) (*under review*)
- “A Question of Awareness? Policy Instruments towards sustainable transition towards clean cooking fuels in India”, (with Martina Zahno, Katharina Michaelowa, Ishita Sachdeva)
- “Consumers willingness to pay for LED Bulbs: A Case study of Bikaner, Rajasthan,” (Mimeo, with Ishita Sachdeva, Katharina Michaelowa, Martina Zahno)
- Assessing Costs And Benefits Of Climate Change Adaptation, HI-AWARE working paper 3, ICIMOD, Kathmandu, 2016
- “Developmental disability Index for hill states in India,” in collaboration with NIPFP, for Planning Commission, Government of India. NIPFP Working Paper No. 134, April 2014 (with Rita Pandey).
- “Indian Agricultural Scenario and Food Security Concerns in the context of Climate Change: A Review,” MPRA paper, University Library of Munich, 2010 (with Smita Sirohi).
- “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 (with Oliver Springate Baginski, et al).
- “Will India’s Attainment of MDGs be an Inclusive Process?” Volume III Number 02, Indian Institute of Dalit Studies, 2009 (with S.K. Thorat).
- “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.
- “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.

Teaching Experience

- *Economic Methods for Environmental Valuation (course offered at Johns Hopkins University, USA); Guest lectures in Environmental Economics and on Quantitative Methods at Delhi University, Jawaharlal Nehru University, TERI University, New Delhi; Lectures on environmental economics in programmes for faculty upgradation /orientation /refresher courses, and training for probationers, senior and mid-career officers of Central and State Government Ministries at various educational institutions and think tanks. Advisor on course curriculum development and evaluation of dissertations for universities*
- *Supervision of PhD students registered under me, summer interns and overseas PhD/M.Phil students affiliated to IEG (Students from Jawaharlal Nehru University (JNU), Delhi University, Oxford University, University of Cambridge, University of Greenwich, Indiana (Bloomington) etc).*

Other Academic Responsibilities:

Lead & Co-ordinate research in projects (both within IEG and in collaboration with other Institutions) funded by various agencies, both international and national, such as Finance Commission (India), IDRC, DFID (UK), World Bank, UNDP, ICSSR, CGIAR, Ministry of Environment, Forests & Climate Change (GOI), South Asian Network for Environment and Development Economics (SANDEE).

Member of peer review bodies and scientific committees (national, international); evaluation of proposals, review of journal articles and books for publication, research reports, projects, etc.

Regular interactions with MoEFCC, Government of India, and other organisations on Climate Change Research, Organising workshops, faculty up-gradation course and training programmes, interactions with civil society.

Recent Conference /Workshop Lectures and Presentations(selected ones from 2015 onwards)

- Future Earth Health KAN Launch, Taipei, 2019
- Climate Change Mitigation Health Co-Benefits Workshop, Univ. of Washington, WHO & Wellcome Trust, London, 2019.
- “Mountain Poverty and Vulnerability” Regional Editor’s meet and launch of the HKH Assessment Report, Kathmandu, 2019
- “Economic Growth, Inequality and Sustainability” Hitotsubashi University, Tokyo, 2018
- “Equating Sustainable Development & Climate Change,” International Conference on Climate Change, TISS, Mumbai, 2018
- “Climate Change & Agriculture” National Workshop on Economic Costs of Climate Change, Madras School, 2018
- “Mountain Poverty & Vulnerability”, ICIMOD session, International Mountain Futures Conference, Kunming, China, 2018
- Lectures on Economics of Climate Change, Indian Economic Service Officers Training Programme (multiple years)
- Lectures on “Ecosystem Services and their Value,” International Centre for Environment Audit (iCED) (multiple years)
- “Public Finance for the Environment”, CEPPF, ADRI, Patna, 2018
- Hindu Kush Himalaya Science Policy Forum: Actions to Sustain a Global Asset, ICIMOD, Kathmandu, 2018
- “Greening the GDP,” Policy Forum on Social Progress, Hitotsubashi University, 2018
- “Economic Growth, Human Development and Planetary Welfare”, IPSP event, Delhi 2018
- “Role of Technology for Mitigating Climate Change”, Annual International G20 Conference, ICRIER, New Delhi 2018
- Annual Learning Review meeting of the CARIIAA program, Cape Town, South Africa, 2018.
- “Market Based Policy Instruments for Climate and Air Pollution,” McArthur Foundation, Bangalore, 2018.
- “Energy Access,” Linking Climate and Development Policies Workshop, Cd-Links, TERI and IIASA, New Delhi, 2018.
- Economic Aspects of Sustainability Indicators,” in "Growth versus Environment: Metrology is the Key", Foundation Day seminar, National Physical Laboratory, 2018.
- US India Track II Dialogue on Climate Change and Energy, Ananta Aspen Centre and The Aspen Institute, New Delhi, 2017
- Water-Energy-Food in South Asia: from concept to practise, presentation at the 2017 South Asia Regional Knowledge Forum, Australian Department of Foreign Affairs and Trade, Kathmandu, 2017
- “From traditional fuels to LPG & LED use: Policy instruments” Indo-Swiss Joint Seminar, Basel, Switzerland, 2017.
- Sustainable Landscapes – Market Issues, Conference on Sustainable Landscapes and Forest Ecosystems: Theory to Practice, USAID & MOEFCC, Delhi, 2017
- Co-Chair, Task Group 1, Knowledge gaps on fundamental science, climate-resiliency, and actionable solutions to support AR6, IPCC and Future Earth, Stockholm, August 2016.
- Lectures on Climate Change Adaptation, Risk and Resilience, HI-AWARE Academy, Kathmandu, 2016
- “Growth and Human Development,” SANEI Conference, Kathmandu, 2016
- “Adaptation Policy”, Conference on “Climate Change Adaptation Policy & Science (CCAPS)”, ICIMOD, Kathmandu, 2016

- “Climate Change Mitigation Strategies”, International Conference on Climate Agenda post 2015, TISS, Mumbai, 2016.
- "Economic transitions to achieve Sustainable Development Goals", Trialogue 2047, Development Alternatives, 2016.
- “Climate Change Mitigation Strategies post Paris”, International Conference on climate agenda post 2015, TISS, 2016.
- Member, Scientific Committee, International Scientific Conference on Our Common Future, July, 2015; Co-convenor, Session on “Cities and their environments: Assessing Climate Change Impacts, Adaptation and Mitigation strategies”, Paris, 2015
- “Economics of climate change adaptation,” Monitoring & Assessment of climate change adaptation practices, ICIMOD, 2015
- “Economic and financial assessments of Vulnerability,” Workshop on Climate Impact Vulnerability & Adaptation, GoI 2015
- “Climate and Energy: The Stakes for India”, 4th DPG-IHC Neighbourhood Lecture, Delhi Policy Group, 2015
- “INDCs, Global Carbon space & implications for Adaptation,” India-EU forum on Towards Paris & Beyond, Delhi, 2015
- Speaker at Outreach events organised by IPCC, relating to the AR5. (Bangkok, 2015, New Delhi and Bangalore 2014, 2015,
- Chair, Plenary Session, “Landscapes of Our Common Future,” International Conference on Our Common Future, Paris 2015