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Education

Post-doctoral research, Massachusetts Institute of Technology, MA, 2001-2002.
Ph.D. Economics, University of Maryland, College Park, MD, 1993.
[Dissertation Committee: Maureen Cropper, Thomas Schelling (Nobel Laureate), Wallace Oates and William Evans]
M.A. Economics, Delhi School of Economics, University of Delhi, 1982.
B.A. (Honours) Economics, Shri Ram College, University of Delhi, 1980.

Internships

Resources for the Future, Washington D.C., 1990.
International Food Policy Research Institute, Washington D.C., 1987.

Professional Positions

1997-present Reader (Associate Professor), Department of Economics, Delhi School of Economics, University of Delhi.
2007- Director, Urban Governance Programme, Centre for Civil Society, New Delhi.
2005-06 Director, National Institute of Urban Affairs, New Delhi (equivalent to Additional Secretary, Government of India).
2000 Visiting Faculty, School of International Studies, Jawaharlal Nehru University, Delhi.
1995-97 Fellow (and Head, Environmental Policy Cell), National Institute of Public Finance and Policy, New Delhi.
1993-95 Environmental economist, Environment Department, World Bank, Washington D.C.
1991-93 Doctoral scholar, Resources for the Future, Washington D.C.
1989-91 Instructor, Department of Economics, University of Maryland, College Park, MD.
1983-88 Research Officer, Department of Economic Affairs, Ministry of Finance, Government of India [as officer in Indian Economic Service cadre].
1982-83 Lecturer-in-Economics, PGDAV College, University of Delhi.
1982 Research Associate, The Policy Group, New Delhi.

Fields of Specialization

Environmental and natural resource economics, development economics, public economics

Teaching Experience

Delhi School of Economics: environmental economics, environment and development, public economics, microeconomics (all at masters level)
Jawaharlal Nehru University: environmental economics (masters level)
University of Maryland: statistics (final year undergraduate), microeconomics-principles, macroeconomics-principles (undergraduate)
PGDAV College, University of Delhi: microeconomics, monetary economics, microeconomics (all undergraduate)

Conducted intensive short course in environmental economics for SANDEE (South Asian Network for Development and Environmental Economics), 2006.

Conducted refresher course in applied economics for college lecturers at University of Delhi, 1997.

Honours/Awards

2002 Fulbright Occasional Lecturer, Council for International Exchange of Scholars.
 2001-02 Fulbright Post-Doctoral Research Fellow, Massachusetts Institute of Technology.
 2001 summer Faculty Research Fellow (at Queen's University, Kingston, Ontario) Shastri Indo-Canadian Institute.
 1990, 91 Teaching award, Department of Economics, University of Maryland.
 1981 Shriram Traveling Fellowship, Delhi School of Economics, University of Delhi.

Competitive Grant Support

2004-06 Research grant, South Asian Network for Development and Environmental Economics.
 2003-04 Research grant, Institute for Environmental Studies, Free University, Amsterdam.
 1999, 2003 Research grants, Centre for Development Economics, Delhi School of Economics.
 2003 Travel grant, European Association of Environmental and Resource Economists.
 2003 Travel grant, IUCN/Ford Foundation, New York.
 2002 Travel grant, World Congress of Environmental and Resource Economists, Monterey.
 1998 Travel grant, Beijer International Institute for Ecological Economics, Stockholm.
 1996 Travel grant, Norwegian Agency for Development, New Delhi.
 1991-93 Exploratory Research Grant, Office of Exploratory Research, U.S. Environmental Protection Agency.
 1990 Doctoral dissertation grant, Resources for the Future, Washington D.C.

Publications

(i) Books

Environmental Policy in India: The Political Economy of Social Choices (with John Adams), Edward Elgar Publishers, Cheltenham, UK, forthcoming.

India and Global Climate Change: Perspectives on Economics and Policy from a Developing Country (co-edited with Michael Toman and Ujjayant Chakravarty), Resources for the Future Press, Washington D.C. (2003). [Reprinted by Oxford University Press India (2004)].

India: Mainstreaming Environment for Sustainable Development. Asian Development Bank, Manila (2001).

(ii) Journal articles

"Poverty and the environment: Exploring the Relationship Between Household Incomes, Private Assets, and Natural Assets," with Urvasi Narain and Klaas van't Veld, *Land Economics*, forthcoming (2007).

"Do Stock Markets Penalise Environment-unfriendly Behaviour? Evidence from India," with B.N. Goldar, *Ecological Economics*, **52**: 81-95 (2005).

"Inaction on Climate Change: Follow the Leader?" *Economic and Political Weekly*, December 6, 2003.

"India, CDM and Kyoto Protocol," *Economic and Political Weekly*, October 11, 2003.

“Dithering on Climate Change,” *Economic and Political Weekly*, December 21, 2002.

“Paying for Permanence: An Economic Analysis of EPA’s Cleanup Decisions at Superfund Sites,” with George Van Houtven and Maureen Cropper, *The RAND Journal of Economics*, **27(3)**: 563-582 (1996).

[Reprinted in: *Valuing Environmental Benefits: The Selected Essays of Maureen Cropper*, Edward Elgar Publishers, Cheltenham, UK (1999)].

(iii) Recent working papers

“Who Collects Resources in Degraded Environments?” with Neetu Chopra, Supriya Singh, Urvashi Narain and Klaas van’t Veld, Centre for Development Economics, Delhi School of Economics.

“Measuring the Performance of Water Service Providers in Urban India: Implications for Managing Water Utilities,” with Surender Kumar and Gopal Sarangi, National Institute of Urban Affairs, NIUA WP 2007-01, March 2007.

“Community-oriented City Development Plans,” with Paramita Datta Dey, National Institute of Urban Affairs, NIUA WP 2006-02, November 2006.

“Looking Back to Look Ahead - Background Paper on CDP Appraisals,” with Paramita Datta Dey, Usha Raghupathi and Sandeep Thakur, National Institute of Urban Affairs, NIUA WP 2006-01, November 2006.

“India’s Firewood Crisis Re-examined,” with Klaas Van ’t Veld, Urvashi Narain, Neetu Chopra, and Supriya Singh, Resources for the Future, RFF DP 06-25, April 2006.

“Resource Use Efficiency of U.S. Electricity Generating Plants During the SO₂ Trading Regime: A Distance Function Approach,” with Surender Kumar, National Institute of Public Finance and Policy Working Paper No. 17/04.

(iv) Book chapters

“Disproving the Conventional Wisdom: Both Poor and Rich Depend on Natural Resources in Indian Villages,” with Urvashi Narain and Klaas van’t Veld, in *Poverty Reduction and Environmental Management*, edited by Pieter van Beukering, Edward Elgar Publishers, Cheltenham, UK (forthcoming).

“Implementing Kyoto-Type Flexibility Mechanisms for India: Problems and Prospects,” in *Greenhouse Gas Emissions Trading and Project-based Mechanisms*, OECD, Paris (2004).

“Incentive-based Approaches for Mitigating Greenhouse Gas Emissions: Issues and Prospects for India,” in *India and Global Climate Change: Perspectives on Economics and Policy from a Developing Country*, edited by M. Toman, U. Chakravorty and S. Gupta, Resources for the Future Press, Washington D.C. (2003). [Reprinted by Oxford University Press India (2004)].

“Water Reforms through Water Markets: International Experience and Issues for India,” with Nirmal Mohanty, in *India Infrastructure Report 2002*, Oxford University Press India (2002).

“Economywide Policies and the Environment: A Case Study of Poland,” with Robin Bates and Boguslaw Fiedor, in *The Greening of Economic Policy Reform*, edited by W. Cruz and others, World Bank, Washington D.C. (1997).

“Fiscal Implications of Environmental Taxes in India: An Exploratory Analysis,” in *India: Tax Policy for the Ninth Five Year Plan*, edited by Parthasarathi Shome, Centax Publications, New Delhi (1997).

“Do Benefits and Costs Matter in Environmental Regulation? An Analysis of EPA Decisions Under Superfund,” with G. Van Houtven and M.L. Cropper, in *Analyzing Superfund: Economics, Science and Law*, edited by R.L. Revesz and R. B. Stewart, Resources for the Future Press, Washington D.C. (1995).

Synergistic Activities

Developed and taught masters level course in environment and development at the Delhi School of Economics, University of Delhi. Introduced and taught masters level courses in environmental and resource economics at same institution.

Member (invited), Board of Trustees, Clean Air Initiative for Asian Cities (CAI-Asia) Center (a network established by ADB, World Bank and USAID), 2007-.

Editorial Advisor, Journal of Developing Areas, 2001-.

Referee, Environment and Development Economics, Ecological Economics, Indian Economic Review.

Member, National Selection Committee, Fulbright Post-Doctoral Research Fellowship, 2006.

Member, National Selection Committee, Fulbright Visiting Lecturer Fellowship, 2002, 2003.

Resource person and Referee, South Asian Network for Development and Environmental Economics (SANDEE), 2001-.

Review Editor, Third Assessment Report (Working Group II) Intergovernmental Panel on Climate Change, 2000.

Member, Economic Options Committee on the Montreal Protocol, United Nations Environmental Programme, 1998.

Member, Board of Studies, Centre for Regulatory and Policy Research, TERI (The Energy and Resources Institute) School of Advanced Studies (a deemed university), New Delhi, 2005-.

Member, Academic Council, School of Management, Institute for International Management and Technology (IIMT), Gurgaon (Haryana), 2002-.

Board of Scholars, Centre for Civil Society, New Delhi, 2003-.

Founding Trustee, Centre for Civil Society, New Delhi, 1997-2003.

Member, ASSOCHAM (The Associated Chambers of Commerce and Industry of India) Expert Committee on Economic Affairs, 2005-.

Member, Task Force to Evaluate Market Based Instruments for Industrial Pollution Abatement, Ministry of Environment and Forests, Government of India, 1995-97.

Member, Steering Committee to Implement the Montreal Protocol, Ministry of Environment and Forests, Government of India, 1995-97.

Member, Working Group on Environment for the Ninth Five Year Plan, Ministry of Environment and Forests, Government of India, 1996.

Developing Country Experience (other than India)

Sri Lanka, Travelled as part of World Bank missions for a \$100 million IDA loan to the Government of Sri Lanka for implementing its National Environmental Action Plan.

Ghana, Analysed the impact of macroeconomic and sectoral policies on urban and industrial environmental problems as part of World Bank missions.

M. Phil Theses Supervised

Shalini Saksena, Dharmendra Kar, Neetu Chopra (all at Delhi School of Economics)

Masters Thesis Supervised

Antara Choudhury, Masters in Environmental Planning, School of Planning and Architecture, New Delhi, 2004.

Current and Past Professional Affiliations

American Economic Association
Association of Environmental and Resource Economists
European Association of Environmental and Resource Economists
International Society of Ecological Economics
Indian Society for Ecological Economics (life member)

Languages

English (fluent), Hindi (fluent), Bengali (speak fluently), Spanish (basic)