

Curriculum Vitae

G. Mythili

Designation and Institutional Affiliation

Professor

Indira Gandhi Institute of Development Research (IGIDR)

(Web page: www.igidr.ac.in)

Film city Road, Goregaon (E), Mumbai 400065 INDIA

Email: mythili@igidr.ac.in

Ph: office +91 22 69096529; Cell +91 9819328684

Qualification : Ph. D. ECONOMETRICS

Award and Fellowship

Ford Foundation Post Doctoral Overseas Fellowship

Pursued at Department of Agricultural and Resource Economics , **UC Berkeley, USA**,
1990-91, one year.

Visiting Fellowship in Environmental Economics by SANDEE

(South Asian Network for Development and Environmental Economics) visited **PG
Institute of Agriculture, University of Peradeniya, Sri Lanka**, 2002, Jan-Sep,
9 months.

Academic Experience: 35 years of Research and Teaching Experience

Research Interests:

Agricultural Economics: Nutrition and Agriculture, Millets Promotion to address Climate Change challenges in India, Production uncertainty, Measurement of farm risk, and risk premium; Supply Response in Agriculture, General Equilibrium Analysis, CGE model
Environmental and Resource Economics: Linking NDVI with Nutrition using Spatial data, Land Degradation, Climate Change and Agriculture, Environmental valuation;
Community and Forest: Markets and Institutions, Air Pollution and policy instruments
Input Output Models

Subjects taught

Taught Masters and Doctorate students: Resource and Environmental Economics, Econometrics, Mathematics for Economists, Micro Economics, Optimization Technique, Statistics, Application using CGE model, Production Risk in Agriculture, Public Economics.

Professional Experience

Professor : since August, 2011, IGIDR, Mumbai

Associate Professor : from 2004 -2011- at IGIDR, Mumbai and from 1996-2004 at Madras School of Economics, Chennai

Lecturer : from 1989-1995, Department of Econometrics, University of Madras, Chennai.

Education

Ph.D. Econometrics University of Madras 1983-88

Broad Area of the thesis : Agricultural Economics

Thesis Title: Land Allocation under Uncertainty (using Expected Utility Framework)

M.A. Econometrics University of Madras 1979-81

B.Sc. Mathematics University of Madras 1976-79

Subjects : Mathematics, Physics and Statistics

Theses Guidance: Guided students for Ph.D. and M.Phil theses in the field of Environmental Economics, Agricultural Economics and Nutrition

Paper Presentation in major International Conference/Seminar

Climate Change , Agriculture and Food Security, **European Society of Ecological Economics** (ESEE), held at Turku, Finland from 18-21 June 2019.

Has Structural Transformation of Indian Economy benefited Nutritional status of Poor Households: A CGE Approach, **International Conference on Economic Modeling-ECOMOD 2018**, held at Faculty of Economics, University of Venice, Italy from 4-6 July, 2018

Alternative Growth Scenario and Nutritional Outcome using Recursive Dynamic CGE Approach, *24th International Input-Output Association Conference* held at Yonsei University, Seoul, South Korea , July 5 to July 8, 2016.

Drivers of Land Degradation in India , *Project Review Discussion Forum*, Center for Development Research, University of Bonn, Bonn, Germany, May 2015.

Land Degradation in Indian Agriculture: Trend, Causes and Impacts, *World Soil Forum*, Berlin , October 2013.

Structural Transformation, Trade Policy and Income Distributional Impacts: A CGE Approach, *GTAP Annual Conference*, Shanghai, China, June 2013.

Sectoral Trends and Welfare Implications using national CGE model , Seminar on *Indian Agriculture and the World Market: Is it Business as Usual*” (part of TAPSIM Project) held at the office of European Commission, Brussels, Belgium, December 1, 2011.

Climate Change and regional variation in adaptation in Agriculture: *International Society for Ecological Economics*, Bremen and Oldenburg, Germany, August 2010.

Acreage and Yield Response for Major Crops in the pre and post reform Periods in India’ in the seminar *on Agricultural Markets and Policy*, held at Economic Research Service, US Department of Agriculture, Washington D.C. May 2007.

Environmental Policies, *Invited lecture* at Department of Economics, Faculty of Arts, University of Jaffna, Sri Lanka, July 2002.

Economic Instruments to control Environmental Pollution, *World Environment Day Special Lecture*, Post Graduate Institute of agriculture, University of Peradeniya, Sri Lanka, June, 2002.

Decline in Marginal Productivity of Land: A Stochastic Production Function Approach, *Far Eastern Meeting of Econometric Society* held in Singapore, July, 1999.

Allocation of Food Subsidies: Some Policy Issues *Far Eastern Meeting of Econometric Society*, held in Taipei, Taiwan, June 1993.

Major Research Projects

Economics of Land Degradation

Collaborating Institutes and Duration : Centre for Development Research, University of Bonn, 2014-2016 and IGIDR

Role: Principal Coordinator for India Case Study

Task: Finding drivers of Land Degradation in Agriculture, Costs of Land degradation and policy issues using Remote Sensing data for degradation.

Agriculture - Nutrition Disconnect pathways:

Funding Source and Period: Bill Melinda Gates Foundation, 2014-2017

Task: Finding the impact of Structural and Policy changes on Nutritional Outcome for India using Computable General Equilibrium Model.

Trade, Agricultural Policies and Structural Changes in India's Agrifood System: Implications for National and Global Markets

Funding Source and Duration: European Commission, 2010-2014

Collaborating Institutes : LEI, The Hague, Netherlands and IGIDR

Role: Principal Coordinator for India Case Study

Task: Conducting simulations of Baseline and Policy Scenarios of Policy and Structural Changes using Computable General Equilibrium Model

Supply Response of Indian Farmers – Pre and post liberalization regimes

Funding Source and period: US department of Agriculture, Washington, 2006-07

Collaborating Institutes : Economic Research Service, US Dept of Agriculture & IGIDR

Task: Estimating Supply Elasticities for India using Time Series Econometric models

Macroeconomics of Poverty Reduction : India Case Study

Funding Source and Period: UNDP, 2004 to 2006

Task: Synthesis of State Case Studies

Accelerating Growth through Globalization of Indian Agriculture

Funding Source: Australian Centre for International Agricultural Research, 1998-2000

Collaborating Institutes : Australian National University and Madras School of Economics

Task: Implications of Globalisation for agriculture at the National and state levels.

Membership in Society/Committees

Served as Dean of Academics, IGIDR from October 2013 to September 2015

Served as Dean, Student Welfare, IGIDR from Jan 2013 to September 2013

Joint Managing Editor, Journal of Quantitative Economics , The Indian Econometric Society, since 2005.

Served as Member Secretary of Environmental Economics Research Committee and Environmental Economics Curriculum Committee, World Bank aided Capacity Building in Environmental Economics, 1998-2002

External Member in a few Curriculum Board and Board of Studies for Economics.

Life/Annual member - International Society for Ecological Economics, International Econometric Society, International Input-output Association, Indian Econometric Society, Indian Society of Agricultural Economics.

PUBLICATION

Books

Does Acreage Response underestimate Farm Supply Response: An Evidence from Indian Agriculture, LAP Lambert Academic Publishing, Saarbrucken, Germany, 2010.

Topics in Applied Economics: Tools, Issues and Institutions (ed. with R. Hema), Academic Foundation, 2005.

Accelerating Growth through Globalisation of Indian Agriculture (ed. with K.P.Kalirajan, U. Sankar), Macmillan India Ltd. 2001.

Uncertainty and Farm Production Decision (with U.Sankar) Himalaya Publishers, 1991.

Farm Management Report on Increasing Groundnut Production (with U.Sankar) Consolidated Report, 1981-84, Directorate of Economics and Statistics, Government of India, 1987.

Papers in International Journal/Proceedings/Book Chapters/ Book Review

Applied Economics, In Haddad, B. & Solomon, B.D. *Dictionary of Ecological Economics*. Cheltenham, UK: Edward Elgar, 2023.

Has structural Transformation of Indian Economy benefitted Nutritional Status of poor households?: A Computable General Equilibrium Framework; https://editorialexpress.com/cgi-bin/conference/download.cgi?db_name=ECOMOD2018&paper_id=208 Proceedings of ECOMOD 2018, Venice, Italy.

Economics of Land Degradation in India (co-author) Chapter 15 in Nkonya, E, Mirzabaev A and von Braun J (Eds) *Economics of Land Degradation and Improvement- A Global Assessment for Sustainable Development*, Springer, 2017.

India: Economic Growth and Income distribution in Rural and Urban Areas, Chapter 6 and Employment Guarantee Program and Income distribution, Chapter 9 in Brouwer, Floor and

P.K. Joshi (eds) *International Trade and Food Security: The Future of Indian Agriculture*, CABI International, 2016.

Structural Transformation , Trade Policies and Income Distributional Impacts: A CGE Model of India, *Millennial Asia : An International Journal of Asian Studies*, Vol 6, No 2, October 2015.

Examining Environmental Kuznets Curve for River Effluents in India (co author) *Environment, Development and Sustainability*, Vol 13, issue 3,2011, Springer.

Willingness to pay for Water Quality Improvement: A Study of Powai Lake in India , (co author) *Asian Journal of Water, Environment and Pollution-* Vol 8, No.1, Jan 2011, IOS Press, Netherlands.

Valuation of Urban Environmental Amenities: A Case Study , (co author) *International Journal of Ecological Economics and Statistics*, Vol (19), No.F10, pp 20-31, Fall 2010, CESER publication

An Analysis of Community Dependence and Forest Management, (co author) *International Journal of Ecology and Development*, Vol 13, No S09, 2009.

Book Review –Book title-Management of Non Timber Forest Product Resources of India: An Analysis of Forest Development Corporations-author-D.D. Tewari, International Book Distributing Co. – Review published in the *Journal of Interdisciplinary Economics*, Vol 21, 2009.

Community Dependence on Protected Forest Areas: A Study on Valuation of Non Wood Forest Products in a Region of India (co author), *Sri Lankan journal of Agricultural Economics*, Vol 5, No.1, 2003

The Challenges of Globalisation for Indian Agriculture, in *Essays in Development Issues* (ed) Nimal Sandaratne and H.M. Gunatilake , published by Sri Lankan Agricultural Economics Association, 2002.

Environmental Problems in India's Energy Sector and Policies for Corrective Action (co author), in *Public Finance Restructuring for Sustainable Development in Emerging Market Economies* (ed). Bradley, T. , World Resource Institute, Washington, 1998

Price Reforms in the Electricity Sector' (co author) in *Energy and Sustainable Growth: Is Sustainable Growth Possible* , Proceedings of the 20th Annual Conference of International Association for Energy Economics, Vol II , 1997.

A Theoretical Exposition of Consumer's Response to Alternative Food Policies ,Working Paper No.615, Department of Agricultural and Resource Economics, University of California, Berkeley, 1991.

Indian Journals/Book Chapters

Complexity of Environmental Problems and Challenges for Governanace, Chapter 2 in *Governance in Sociology of Natural Resources in the Post –liberalization Phase: Issues and Perspectives from India* (ed) Sarmistha Pattanaik, Orient Blackswan (Forthcoming)

Consumption and Nutritional Implications of Alternative Growth Scenario, Chapter 5, *India Development Report*, (ed) S. Mahendra Dev, Oxford University Press, 2018.

Sectoral Linkages, Multipliers and the Role of Agriculture (co author) Chapter 7 in *India Development Report* , (Ed) S. Mahendra Dev. pp 95-115, Oxford University Press, 2014

Supply Response for Major Crops in the Pre and Post Reform Periods: A Dynamic Panel data Approach, *Journal of Quantitative Economics*, Vol 5, No.1, Jan 2007.

Book Review – Title-Corporate Accountability and Sustainable Development , Peter Utting and Jennifer Clapp (Eds) , Oxford University Press, Review published in *Journal of the Indian School of Political Economy*, Vol 19, No 1 &2, Jan-June 2007.

Measures of Risk Aversion and Risk premium from the Land Allocation Model: An Empirical Analysis based on Farm level Panel Data, *The ICAFI Journal of Agricultural Economics*, Vol III, No.4. Oct 2006.

Natural Resource Economics and Environmental Problems and Policies in India, 2 Chapters in printed Course text for Masters Program in Economics, Indira Gandhi National Open University, Nov 2006.

Estimation of Decline in Marginal productivity of Land using Stochastic Production Function', in *Topics in Applied Economics: Tools , Issues and Institutions* (ed.) G. Mythili and R. Hema, Academic foundations, 2005

Technical Efficiency of Rice Growers in Tamilnadu; A Study based on Panel Data' (co author), *Indian Journal of Agricultural Economics*, Vol 55, No. 1, Jan-March 2000, pp15-25.

Economic Instruments for Environmental Sustainability: The Energy Sector, Chapter 1 (co author), National Institute of Public Finance and Policy and Madras School of Economics, 1998.

Subsidy in Kind and Stigma Effect, *Indian Journal of Applied Economics*, Vol 6, No.4, Oct – Dec, 1997.

Diversification of Enterprises: The Measurement Problem, *Productivity*, Oct-Dec, 1996.

A Note on Aggregation Error in Input-output Analysis, *Journal of Quantitative Economics*, Vol.II, No.2, July 1995.

Unorganised Manufacturing Sector', Chapter 4 in *Input-output Transaction Tables, Tamil Nadu 1991-92* by U.Sankar, Published by University of Madras, 1995.

A Theoretical Evaluation of Alternative Food Policies for Consumption', *Journal of Quantitative Economics*, Vol.IX, No.1, Jan 1993.

Consequences of Aggregation in Economics, Chapter 3 in *Methodology of Applied Economic Research* (ed.) U. Sankar and T. Lakshmanasamy, Sterling Publishers Private Ltd., 1993

Land Allocation under Uncertainty: An Econometric Analysis' *Indian Economic Review*, Vol.XXVII, No.1, 1992.
