
C U R R I C U L U M V I T A E

O F

K. S. Kavi Kumar

E D U C A T I O N

Indira Gandhi Institute of Development Research (IGIDR) 1992-1998
Mumbai, INDIA

Ph.D. awarded in October 1998 after successfully defending thesis titled *Modeling and Analysis of Climate Change Impacts on Indian Agriculture*.

Post Graduate Diploma in Development Policy awarded in July 1993 after successful completion of the graduate coursework in Economics.

Indian Institute of Technology (IIT) 1988 - 1990
Kharagpur, INDIA

Master of Technology in *Industrial Engineering and Management*

Jawaharlal Nehru Technological University (JNTU) 1984 - 1988
Kakinada, INDIA

Bachelor of Technology in *Mechanical Engineering*

A W A R D S / F E L L O W S H I P S / M E M B E R S H I P S

2023-2026: Member of Technical Advisory Committee for India's 4th National Communication and Biennial Update Reports to the UNFCCC, MoEFCC, GoI.

2025-2028: Member of Technical Program Committee for Advanced Research Grant, Quantitative Social Science Program of Anusandhan National Research Foundation, GoI.

2025-: Chairperson of Expert Committee to screen/examine proposals received for financial assistance under Grants-in-Aid, MoSPI, GoI

2023-2027: Member of the Expert Group on Ocean Ecosystem Accounts in India, Ministry of Statistics & Programme Implementation, GoI.

2024: Member of Inter-ministerial Working Group (Agriculture) to Develop Pathways for Meeting National Commitment on Net-Zero, NITI Aayog, GoI.

2024: Member of Expert Committee to Contribute to the Operationalization of Kunming-Montreal Global Biodiversity Framework (KMGBF), National Biodiversity Authority, GoI.

2022-2025: Member of State Level Expert Appraisal Committee (SEAC) for Environment Impact Assessment Authority, Tamil Nadu, GoI.

2021-2023: Member of Scientific and Technical Advisory Group for the Compilation of Environmental Accounts for India, Ministry of Statistics & Programme Implementation, GoI.

2020-2021: Expert Member of the Committee on National Coastal Marine Spatial Planning Framework (CMSP), Ministry of Environment, Forest and Climate Change, GoI.

2019-2020: Member of the Expert Committee for Mathematical Research Impact-Centric Support Scheme (MATRICS), Science and Engineering Research Board, Dept. of Science and Technology, GoI.

2019-2020: Member of Expert Committees set up by National Green Tribunal to, (i) prepare scale of compensation for illegal sand mining in India; (ii) assess causes and quantum of damages due to pollution in Chennai water ways.

2018-2021: Member of Technical Advisory Committee for India's 3rd National Communication and Biennial Update Reports to the UNFCCC, MoEFCC, Gol.

2014-2017: Member of the Expert Committee on Access and Benefit Sharing, National Biodiversity Authority, Gol.

2014-2016: Member of the Expert Committee on Climate Change, MoEFCC, Gol.

2012-2016: State Level Expert Appraisal Committee (SEAC) for Environment Impact Assessment Authority, Tamil Nadu, Gol.

2011-2015: Member of the Core Group for the preparation of the State Action Plan on Climate Change, Tamil Nadu

2011-2014: Member of the Expert Committee for technical evaluation of Sponsored/Competitive Grants Component under 'National Initiative on Climate Resilient Agriculture' launched by ICAR

2007-2015: Member-secretary of the Steering Committee of Centre of Excellence in Environmental Economics - funded by the Ministry of Environment and Forests, Government of India.

2006-2011: Member of the Indian National Committee for the India-IIASA Program, TIFAC, Department of Science and Technology, Government of India.

2006: Visiting Scientist at Potsdam Institute for Climate Impact Research, Germany to work on PIK and SEI joint project FAVAIA – Formal Approaches to Vulnerability Assessment that Informs Adaptation, May – June.

2004: Visiting Scientist fellowship to visit Potsdam Institute for Climate Impact Research, Germany from START: The global change SysTem for Analysis, Research, and Training, Washington, D.C., October-December.

2001: Young Scientist award for South Asia region from START: The global change SysTem for Analysis, Research, and Training, Washington, D.C.

RESEARCH / WORK EXPERIENCE

Professor at Madras School of Economics, Chennai: July 2007 till date.

Visiting Researcher at Indira Gandhi Institute of Development Research, Mumbai: May 2017.

Associate Professor at Madras school of Economics, Chennai: April 2002 to July 2007.

Visiting Scientist at Potsdam Institute for Climate Impact Research, Potsdam: October-December 2004; May-June 2006.

Assistant Professor at Madras school of Economics, Chennai: October 1999 to April 2002.

Research Associate in Environmental Economics Unit at Institute of Economic Growth, Delhi: February 1999 to October 1999.

Research Associate in Centre for Global Environmental Research at Tata Energy Research Institute, New Delhi: May 1998 to February 1999.

Ph.D. Internship Program at the United Nations University/Institute of Advanced Studies (UNU/IAS), Tokyo: March-November 1997.

Consultant to the GIZ (Deutsche Gesellschaft für Internationale), New Delhi, August-September 2012; August-November 2015.

Consultant to the Global Development Network, New Delhi, June 2011 to December 2012.

Consultant to the World Bank, Washington D.C., March 1996-August 1997; November 2008 to June 2009.

Associate in Food and Agriculture Program at International Institute for Applied Systems Analysis, Austria: November-December, 1994.

Assistant Manager in Management Services Division of Alloys Steel Plant, Steel Authority of India Limited, Durgapur: 1990-1992.

P U B L I C A T I O N S (J O U R N A L S / B O O K S / W O R K I N G
P A P E R S) (S I N C E 2 0 1 5)

Vikhil, S. and K.S. Kavi Kumar (2025), 'Impact of Cash Transfer Program on Time-use Patterns of Agricultural Households: Evidence from India', MSE Working Paper WP-287, Madras School of Economics, Chennai.

Pattanayak, A. and K.S. Kavi Kumar (2025), "Determination and Analysis of Weather over Administrative Regions of India: 1951 to 2021", MSE Working Paper WP-281, Madras School of Economics, Chennai

Vikhil, S. and K.S. Kavi Kumar (2025), 'Impact Evaluation of Cash Transfer: Case Study of Agriculture, Telangana', MSE Working Paper WP-278, Madras School of Economics, Chennai.

K.S. Kavi Kumar and R. Soundarya (2024), 'Financing Climate Change Adaptation: A Critical Review', in K.R. Shanmugam (ed) *India's Public Finance and Policy Challenges in the 2020s*, Springer (forthcoming).

K.S. Kavi Kumar (2024), 'Climate Risks and Financial Management', in P. Chakraborty and K.R. Shanmugam (ed) *Fiscal Policy and Public Finance Management*, Oxford University Press.

K.S. Kavi Kumar and A. Pattanayak (2024), 'Fiscal Transfers and Natural Calamities: Does Political Alignment Matter?', *Ideas of India*, November, <https://www.ideasforindia.in/topics/governance/fiscal-transfers-and-natural-calamities-does-political-alignment-matter.html>.

K.S. Kavi Kumar and A. Pattanayak (2024), 'Climate Change and Indian Agriculture: A Critical Review', *Productivity*, 64(4).

Dayakar, P. and K.S. Kavi Kumar (2024), 'Soil and Water Conservation Measures and Rainfed Agriculture in Telangana, India: Role of Community and Neighborhood Conservation Measures', *Land Use Policy*, 137.

Viswanathan, B. and K.S. Kavi Kumar (2024), 'Economies of Scale in Household Consumption Pattern', in P. Ray & S. Ghosh (ed) *Perspectives on Economics and Management: Essays in Honour of Anindya Sen*, Routledge (forthcoming).

Pattanayak, A., M. Srinivasan, and K.S. Kavi Kumar (2023), 'Crop Diversity and Resilience to Droughts: Evidence from Indian Agriculture', *Review of Development and Change*, 28(2).

K.S. Kavi Kumar and A. Lakshmi (2023), 'Taking Stock: Valuation of Coastal and Marine Ecosystem Goods and Services', in *Sea to Prosperity: The Significance of Fisheries and Aquaculture in the Blue Economy* (forthcoming).

Lakshmi, A. and K.S. Kavi Kumar (2023), 'Facilitating Progress towards a Successful Blue Economy', commentary, *Mongabay*, 9th May.

- K.S. Kavi Kumar and A. Pattanayak (2022), 'Fiscal Transfers, Climate Risks, and Partisan Politics: Does the Nature of Climate Risk Matter?', MSE Working Paper, 227/2022, Madras School of Economics, August.
- Sur, A., K.S. Kavi Kumar, and A. Pattanayak (2022), 'Adaptation to Rainfall Extremes: Role of Dams in India', MSE Working Paper, 223/2022, Madras School of Economics, July.
- Sandhani, M., A. Paatanayak, and K.S. Kavi Kumar (2022), 'Weather Shocks and Economic Growth in India', *Journal of Environmental Economics and Policy*, 10.1080/21606544.2022.2087745.
- Pattanayak, A. and K.S. Kavi Kumar (2022), 'Fiscal Transfers, Natural Calamities and Partisan Politics: Evidence from India', *Economics of Disasters and Climate Change*, 10.1007/s41885-022-00111-z.
- Kavi Kumar, K.S., RC Bhatta, P. Mukhopadhyaya, LR Anneboina and others (2022), 'Valuation of Marine and Coastal Ecosystem Services in India', *Ecology, Economy and Society – the INSEE Journal*, 5(1).
- Pattanayak, A., K.S. Kavi Kumar, and L.R. Anneboina (2021), 'Distributional Impacts of Climate Change on Agricultural Total Factor Productivity in India', *Journal of Asia Pacific Economy*, 26(2), 381-401.
- Dayakar, P. and K.S. Kavi Kumar (2021), 'Adoption of Soil Conservation Measures: Evidence from Rain-fed Watershed Areas of Telangana', *Ecology, Economy and Society – the INSEE Journal*, 4(2).
- Barve, S., K.S. Kavi Kumar, and B. Viswanathan (2021), 'Weather Variability, Agricultural Productivity, and Farmer Suicides in India', *Climate Change Economics*, doi: 10.1142/S2010007821500056.
- K.S. Kavi Kumar (2021), 'Rice Production Systems and Drought Resilience in India', in Dasgupta, P. et al. (ed.), *Sustainable Development Insights from India: Essays in Honour of Ramprasad Sengupta*, Springer.
- Madhumitha, S., K.S. Kavi Kumar, and A. Pattanayak (2021), 'Crop Diversity and Resilience to Droughts: Evidence from Indian Agriculture', MSE Working Paper, 205/2021, Madras School of Economics, February.
- Pattanayak, A. and K.S. Kavi Kumar (2020), 'Does Weather Sensitivity of Rice Yield Vary across Sub-regions of a Country? Evidence from Eastern and Southern India', *Journal of Asia Pacific Economy*, doi: 10.1080/13547860.2020.1717300.
- Dayakar, P. and K.S. Kavi Kumar (2020), 'Farmer's Perceptions about Soil Erosion in Rainfed Areas of Telangana, India', *Journal of Public Affairs*, doi: 10.1002/pa.2374.
- K.S. Kavi Kumar and A. Pattanayak (2020), 'Climate Change Impacts and Indian Agriculture: A Review', in J.R. Bhatt and K. Parikh (ed.), *Climate Change: India's Perceptions, Policies and Expectations*, MoEF&CC, GoI (forthcoming).
- Sandhani, M., A. Pattanayak, and K.S. Kavi Kumar (2020), 'Impact of Climate Change on Economic Growth: A Case Study of India', MSE Working Paper, 204/2020, Madras School of Economics, September.
- K.S. Kavi Kumar and B. Viswanathan (2019), 'Mainstreaming Climate Change Adaptation: Agriculture', in N. Dubash (ed), *India in a Warming World – Integrating Climate Change and Development*, OUP, New Delhi.
- K.S. Kavi Kumar, B. Viswanathan, and P. Dayakar (2019), 'Climate and Weather Induced Agricultural Distress and Migration: Characteristics and Evidence', *Productivity*, 60(2), July-September.

- Thornton, P.K., A.M. Loboguerrero, B.M. Campbell, K.S. Kavi Kumar, L. Mercado, and S. Shackelton (2019), 'Rural Livelihoods, Food Security and Rural Transformation under Climate Change', background paper for *Global Commission on Adaptation*, www.gca.org.
- Barve, S., K.S. Kavi Kumar, and B. Viswanathan (2019), 'Weather Shocks, Agricultural Productivity and Farmer Suicides in India', MSE Working Paper, 185/2019, Madras School of Economics, December.
- Pattanayak, A. and K.S. Kavi Kumar (2019), 'Fiscal Transfers, Natural Calamities and Partisan Politics – Evidence from India', MSE Working Paper, 184/2019, Madras School of Economics, July.
- Pattanayak, A. and K.S. Kavi Kumar (2019), 'Assessment of Climate Change Impacts and Adaptation: A Methodological Review and Application to Indian Agriculture', MSE Working Paper, 183/2019, Madras School of Economics, July.
- K.S. Kavi Kumar, A. Pattanayak, B. Viswanathan, and A. Chaturvedi (2019), 'Climate Risk and Rural India: Research and Policy Issues', MSE Working Paper, 182/2019, Madras School of Economics, May.
- Dayakar, P. and K.S. Kavi Kumar (2019), 'Farmer's Perception on Soil Erosion in Rainfed Watershed Areas of Telangana, India', MSE Working Paper, 180/2019, Madras School of Economics, April.
- K.S. Kavi Kumar (ed.) (2018), 'A Study of India's Textile Exports and Environmental Regulations', Springer, January.
- Anneboina, L.R. and K.S. Kavi Kumar (2017), 'Economic Analysis of Mangrove and Marine Fishery Linkages in India', *Ecosystem Services*, 24, 114-123.
- Shanmugam, K.R. and K.S. Kavi Kumar (ed.) (2016), 'Environment and Development: Essays in Honour of Dr. U. Sankar', Sage Publications, New Delhi, January.
- B. Viswanathan and K.S. Kavi Kumar (2016), 'Use of Kerosene for Cooking in India: Recent Trends and Environmental Implications', *Review of Development and Change*, XXI(1), 65-87.
- L.A. Acosta, D.B. Magcale-Macandog, K.S. Kavi Kumar, X. Cui, E.A. Eugenio, P.B.M. Macandog, A.R. Salvacion, and J.M.A. Eugenio (2016), 'The Role of Bioenergy in Enhancing Energy, Food and Ecosystem Sustainability Based on Societal Perceptions and Preferences in Asia', *Agriculture*, 6 (19).
- L.R. Anneboina and K.S. Kavi Kumar (2016), 'Caught in the Net: Fish Consumption Patterns of Coastal Regions in India', *Economic and Political Weekly*, 19, May 7.
- B. Viswanathan and K.S. Kavi Kumar (2015), 'Weather, Agriculture and Rural Migration: Evidence from State and District Level Migration in India', *Environment and Development Economics*, <http://dx.doi.org/10.1017/S1355770X1500008X>.
- Srivastava, D.K. and K.S. Kavi Kumar (ed.) (2014), *Environment and Fiscal Reforms in India*, Sage Publications, New Delhi, January.

R E S E A R C H P R O J E C T S (S I N C E 2 0 1 0)

Principal Investigator for "Building an Australia-India Community of Practice on Ocean Accounting Program", project funded by University of New South Wales: September 2021 – January 2023.

Principal Investigator for Organizing Regional Training Programs on *Economics of Climate Change*, for the State Government Officers, project funded by GIZ, New Delhi: December 2021 – May 2022.

Principal Investigator for the preparation of “State of Environment Report for Tamil Nadu”, project funded by the Department of Environment, GoTN: January 2015 – January 2016.

Co-principal Investigator for “Coastal Capital: An Economic Valuation of Coastal and Marine Ecosystem Goods and Services in India”, project funded by National Centre for Sustainable Coastal Management: June 2014 – March 2016.

Co-principal Investigator for “Integrated sustainability assessment of bioenergy potentials in Asia: An application of a hybrid approach on trade-offs and pathways (PIC-STRAP)”, project funded by Asia Pacific Network: June 2013 – August 2015.

Co-principal Investigator for “Fiscal Instruments for Climate Friendly Industrial Development in the State of Tamil Nadu”, project funded by British High Commission under the Prosperity Fund: December 2011 – March 2013.

Co-principal Investigator for “Climate Change, Agricultural Impacts and Migration: Case Study of India”, project funded by South Asian Network for Development and Environmental Economics: August 2011 to July 2012.

Principal Investigator for “Preparation of Base Paper on Green Economy”, project funded by the Ministry of Environment and Forests, Government of India: June 2011-July 2012.

Team Leader (South Asia Region) for preparing a policy paper on “Addressing Long-term Challenges for Food Security and Rural Livelihoods”, project funded by Global Development Network, June 2011-December 2012.

Co-principal Investigator for “Integrating Pollution-Abating Economic Instruments in Goods and Services Tax (GST) Regime”, project funded by the Strategic Programme Fund of British High Commission: May 2009 – March 2012.

T A L K S / S E M I N A R S (S I N C E 2 0 1 9)

“Climate Change Adaptation and Finance: Indian Perspective”, invited talk at HSS, IIT Tirupati, 29 March 2025.

“Climate Risk, Adaptation and Finance: Indian Agriculture”, invited talk at AERC Platinum Jubilee Conference, Gokhale Institute of Politics and Economics, 23-24 December 2024.

“Environment and Development”, invited talk at *Orientation Program on Environmental Impact Assessment*, organized by SEIAA-TN, Udhamandalam, 22-23 August 2024.

“Reflections on Climate Change Adaptation”, invited talk at 5th Annual Conference in Economics and Finance, BITS-Hyderabad, 9 February 2024 (online).

“Climate Change & Agriculture”, panelist in the Interactive Session on *Opportunities for Agriculture*, 2nd Kautilya Economic Conclave, IEG-MoF, New Delhi, 20-22 October 2023.

“Climate Change-Food Security-Economic Growth”, panelist in the Panel Discussion on *Indian Economy and Climate Change*, organized jointly by RBI & MIDS, MIDS-Chennai, 23 March 2023.

“3C Shock –Poverty, Food Security & Nutrition”, panelist in the Panel Discussion on *3C (Covid, Climate Change & Conflict) Shock*, 2nd Biennial Conference on Development, IGIDR, Mumbai, 21-23 December 2022.

- “Weather Shocks and Economic Growth: Evidence from India”, invited talk at IEG-Goa Business School-DEA Conference *Economic Resilience and Public Policy*, Goa University, 10-11 October 2022.
- “Climate Risk and Agriculture”, ICSSR Sponsored Invited Lecture Series on *Challenges and Issues in Indian Agriculture*, CDS, 10th May 2022 (online).
- “Climate Change and Agriculture”, invited talk at the Workshop on *Health, Food, Nutrition and Data*, Ashoka University, 7-8 December 2021 (online).
- “Impact of Climate Change on Indian Agriculture & Economic Growth”, invited talk at *XV Agricultural Science Congress*, Banaras Hindu University, Varanasi, 13-16 November 2021 (online).
- “Climate Extremes and Economic Loss”, invited talk at the Regional Seminar of Indian Society for Agricultural Economics, *Climate Extremes, Economic Loss and Farmer Resilience*, Kerala Agricultural University, Thrissur, 11-12 November 2021 (online).
- “Weather Shocks and Economic Growth in India”, webinar given at Shakti Sustainable Energy Foundation, New Delhi, 27th August 2021 (online).
- “Climate Change and Sustainable Development”, invited talk at *Fast-track Learning in Climate Change and Marine Life*, 19th July 2021 (online).
- “COVID-19 Recovery and Environment”, panelist in online Panel Discussion, *COVID-19: Impact on the Economy and Inclusive Growth*, organized by Indian Economic Association and D.G. Vaishnav College, 3rd July 2020 (online).
- “Climate Change and Agriculture”, invited talk at 102nd Conference of the Indian Economic Association, Pt. Ravishankar Shukla University, Raipur, 27-29th December 2019.
- “Rice Production Systems and Drought Resilience in India”, paper presented as part of Panel Discussion on *Climate Change Impacts and Indian Agriculture: Methodological Issues*, at the Tenth INSEE Biennial Conference, CESS, Hyderabad, 6-8th November 2019.
- “Financial Instruments to Manage L&D and Climate Risk”, invited talk at National Consultation Workshop on Loss and Damage, Government of India, 16th April 2019, New Delhi.