

Anant Sudarshan

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EMPLOYMENT HISTORY

Professor, Department of Economics, University of Warwick, Jun 2025–

Associate Professor, Department of Economics, University of Warwick, Jun 2023–May 2025.

Assistant Professor, Department of Economics, University of Warwick, Sep 2022–Jun 2023.

South-Asia Director, Energy Policy Institute at the University of Chicago, Dec 2017–Sep 2022.

India Director, Energy Policy Institute at the University of Chicago, Aug 2014–Nov 2017.

Sustainability Science Fellow, Kennedy School, Harvard University, Apr 2011–Aug 2014.

Research Scientist, Energy Initiative, Massachusetts Institute of Technology, Sep 2013–Aug 2014.

Senior Research Manager, Abdul Latif Jameel Poverty Action Lab, Apr 2011–Aug 2014.

Consultant, Sequoia Capital, Mumbai/Stanford, Sep 2009–Mar 2010.

Research Associate, The Energy and Resources Institute, New Delhi, May 2006–Apr 2007.

EDUCATION

Ph.D., Management Science and Engineering, Stanford University, 2011.

M.S., Mechanical Engineering, Stanford University, 2006.

B.Tech., Mechanical Engineering, Indian Institute of Technology, Delhi, 2004.

PUBLICATIONS

“The value of clean water: Experimental evidence from rural India.” (With Fiona Burlig and Amir Jina). **American Economic Review**, 116:3, pp. 1148–87 (2026).

“Can Pollution Markets Work In Developing Countries? Experimental Evidence from India.” (With Michael Greenstone, Rohini Pande, Nicholas Ryan). **Quarterly Journal of Economics**, 140:2, pp. 1003–60 (2025).

“The Social Costs of Keystone Species Collapse: Evidence from the Decline of Vultures in India.” (With Eyal Frank). **American Economic Review**, 114:10, pp. 3007–40 (2024). Lead Article.

“Modeling fine-grained spatio-temporal pollution maps with low-cost sensors.” (With Shiva Iyer, Ananth Balashankar, William H. Aeberhard, Ulzee An, Sujoy Bhattacharya, Giuditta Rusconi, Rohini Pande, Lakshminarayan Subramanian). **npj Climate and Atmospheric Science**, 5, 76 (2022).

“Rationing the commons.” (With Nicholas Ryan). **Journal of Political Economy**, 130:1, pp. 210–257 (2022).

“The Impact of Temperature on Productivity and Labor Supply: Evidence from Indian Manufacturing.” (With E. Somanathan, Rohini Somanathan, and Meenu Tewari). **Journal of Political Economy**, 129:6, pp. 1797–1827 (2021).

“The Consequences of Treating Electricity as a Right.” (With Robin Burgess, Michael Greenstone, and Nicholas Ryan). **Journal of Economic Perspectives**, 34(1), pp. 145–169 (2020).

- “Nudges in the marketplace: The response of household electricity consumption to information and monetary incentives.” **Journal of Economic Behavior and Organization**, 134, pp. 320–335 (2017).
- “The Solvable Challenge of Air Pollution in India.” (With Michael Greenstone, Santosh Harish, Rohini Pande). **India Policy Forum 2017**.
- “Lower Pollution, Longer Lives: Life Expectancy Gains if India Reduced Particulate Matter Pollution.” (With Michael Greenstone, Janhavi Nilekani, Rohini Pande, Nicholas Ryan, Anish Sugathan). **Economic and Political Weekly**, L(8), pp. 40–46 (2015).
- “Deconstructing the Rosenfeld Curve: Making sense of California’s low electricity intensity.” **Energy Economics**, 39, pp. 197–207 (2013).
- “Real-time Feedback and Electricity Consumption: A Field Experiment Assessing the Potential for Savings and Persistence.” (With Sebastien Houde, Annika Todd, June A. Flora and Carrie K. Armel). **The Energy Journal**, 34(1) (2013).
- “Psychohistory Revisited: Fundamental issues in forecasting climate futures.” (With Cullenward, D., Schipper, L., and Howarth, R). **Climatic Change**, 104(3-4), pp. 457–472 (2011).
- “Transport and carbon emissions in the United States: The long view.” (With Schipper, L. and Saenger, C.). **Energies (Special Issue on Energy-Friendly Transportation)**, 4(4), pp. 563–581 (2011).
- “How can economic schemes curtail the increasing sex ratio at birth in China?” (With Bhattacharjya, D., Tuljapurkar, S., Shachter, R. and Marcus Feldman). **Demographic Research**, 19, pp. 1831–1850 (2008).
- “Weather data mining using independent component analysis.” (With Basak, J., Trivedi, D. and M. S. Santhanam). **Journal of Machine Learning Research**, 5, pp. 239–253 (2004).

WORKING PAPERS

- “The Demand for Electricity on the Global Electrification Frontier.” (With Robin Burgess, Michael Greenstone, Nicholas Ryan). Revise and Resubmit. *Journal of Political Economy*
- “Paying for Power.” (With Fiona Burlig). [In preparation].
- “Buying out Distortions: Using cash transfers to induce farmers in India to pay for power and conserve water.” (With Nicholas Ryan). [In preparation].

BOOKS AND CHAPTERS

- Noronha, Ligia and Anant Sudarshan (eds). 2009. **India’s Energy Security**. Routledge Contemporary South Asia Series. New York: Routledge.
- “Coal Supply: The Fallacy of Abundance.” 2008. In S.K. Chand (editor). **The Coal Dilemma**. New Delhi: TERI Press.
- “Monitoring Industrial Pollution in India.” 2023. In T. Madon and A. J. Gadgil (eds). **Introduction to Development Engineering: A Framework with Applications from the Field**, pp. 161–182. Springer Nature.
- “Reforming Energy Subsidies.” (With Fiona Burlig). Forthcoming. In R. Hanna and B. Olken (eds). **Handbook of Social Protection in the Developing World**. MIT Press.

RECENT GRANTS

- 2024: GBP 90k. Congestion Pricing in Delhi, NCR (*Clean Air Fund*).
- 2024: USD 300k. Scaling up Emissions Markets in India (*J-PAL SARWA Initiative*).
- 2023: USD 200k. Using Targeting to Replace Distortionary Subsidies (*King Climate Action Initiative*).
- 2023: USD 75k. Electric cooking, household air pollution, women’s time use, and health (*King Climate Action Initiative*).
- 2023: USD 292k. Using Smart Meters to Reduce Electricity Theft and Improve Supply (*King Climate Action Initiative*).
- 2021: USD 125k. Market mechanisms for allocating clean water: Experimental evidence from India (*Templeton World Charity Foundation*).
- 2021: USD 198k. Scaling Market-based Schemes for Air Pollutants (*King Climate Action Initiative*).
- 2020: USD 20k. Experimental Evidence on the Impacts of Cash Transfers to Migrant Laborers During the COVID-19 Pandemic (*Becker Friedman Institute*).
- 2020: USD 32k. Experimental Evidence on the Impacts of Cash Transfers to Migrant Laborers During the COVID-19 Pandemic (*Weiss Fund for Research in Development Economics*).
- 2019: USD 406k. Direct Benefit Transfer of Electricity Subsidy in Punjab (*Bill and Melinda Gates Foundation*).
- 2019: USD 799k. Direct Benefit Transfer of Electricity Subsidies (*USAID Development Innovation Ventures*).
- 2019: USD 209k. The Persistence of Inefficient Policy: The Case of Free Power in Punjab (*J-PAL Governance Initiative*).
- 2018: USD 45k. Direct Benefit Transfer of Electricity Subsidy in Rajasthan (*MCP Foundation*).
- 2016: USD 3,300k. Design, Implementation and Evaluation of a Pilot Emissions Trading Scheme (*MacArthur Foundation*).
- 2016: USD 440k. Enabling air quality with better monitoring, energy efficiency and market measures (*USAID*).
- 2016: USD 25k. Trust and the purchase of energy efficient durable goods (*E2e Design Competition*).
- 2016: USD 50k. Agricultural Electricity Subsidy Reform and Power Leakage in Rajasthan (*J-PAL Governance Initiative*).

PROFESSIONAL AFFILIATIONS

- Lead Academic, IGC - India Sustainable Growth Hub
- Fellow, Centre for Economic Policy Research (CEPR).
- Faculty Affiliate, Yale Inclusion Economics.
- Faculty Affiliate, Jameel Abdul Latif Poverty Action Lab.
- Programme Associate, STICERD, London School of Economics.
- Associate Editor, ACM Journal on Computing and Sustainable Societies (2022–).
- Associate Editor, Environment and Development Economics (2016–2021).
- Research Associate, STICERD Economics of Environment and Energy Program, LSE.
- Research Affiliate, International Growth Centre.
- Fellow, Energy for Growth Hub, 2018–2021.

GRIHA Technical Advisory Committee (Behavioral Economics), 2015.

Steering Committee on air pollution, Ministry of Health, Government of India, 2015.

Technical Committee on Emissions Monitoring, Central Pollution Control Board, 2014.

TEACHING EXPERIENCE

University of Warwick, Coventry, UK

Term 2 2023–: Environmental Economics (MSc Year 2 Module)

Term 2 2022–2023: Development Economics (MRes Year 2 Module)

University of Chicago, Chicago, USA

Fall 2018–2019: Environment and Development

Spring 2019–2021: Energy in the Developing World

Ahmedabad University, Ahmedabad, India

2022: Evidence-Based Environmental Policy Design

Ashoka University, Haryana, India

2015: Introduction to Environmental Studies (Lead Instructor)

Stanford University, Stanford, CA, USA

2009: Sustainable Mobility (Lead TA for Prof. Lee Schipper)

2010: Energy and Environmental Policy Analysis (Lead TA for Prof. James Sweeney)

2010: Brainstorming India (Lead Instructor)

POPULAR WRITING

Columns in print and online media including *Forbes*, *The Indian Express*, *The Hindustan Times*, *The Economic Times*, *Outlook Magazine*, *VoxDev*, *Vox.eu*, *Ideas for India*.

LANGUAGES

English, Hindi. Also R, MATLAB, Stata, Python, Mathematica.