

Anant Sudarshan

CONTACT INFORMATION University of Warwick S2.92 Social Sciences Coventry, CV47AL, UK **☎** (+44)7759-808-316 **✉** anant.sudarshan@warwick.ac.uk **I:** www.anantsudarshan.com

APPOINTMENTS **Associate Professor** University of Warwick Department of Economics June 2023 - present

Assistant Professor University of Warwick Department of Economics Sep 2022 - June 2023

South-Asia Director Energy Policy Institute at Chicago (India) University of Chicago Dec 2017 - Sep 2022

Director Energy Policy Institute at Chicago (India) University of Chicago Aug 2014 - Nov 2017

Senior Research Associate Department of Economics University of Chicago Aug 2014 - Sep 2022

Harvard Kennedy School Sustainability Science Fellow Harvard University April 2011 - Aug 2014

MIT Energy Initiative Research Scientist Massachusetts Institute of Technology Sep 2013 - Aug 2014

Abdul Latif Jameel Poverty Action Lab Senior Research Manager IFMR April 2011 - Aug 2014

Sequoia Capital Consultant Mumbai, Stanford Sep 2009 - Mar 2010

The Energy and Resources Institute Research Associate New Delhi, India May 2006 - April 2007

EDUCATION **Stanford University**, Stanford, CA, USA
Ph.D, Management Science and Engineering, March 2011
Master of Science, Mechanical Engineering, 2006

Indian Institute of Technology, New Delhi, India
Bachelor of Technology, Mechanical Engineering, 2004

PUBLICATIONS Can Pollution Markets Work In Developing Countries? Experimental Evidence from India. (With Michael Greenstone, Rohini Pande, Nicholas Ryan). Accepted. *Quarterly Journal of Economics*

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

(Lead Article)

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

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

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

'The Consequences of Treating Electricity as a Right'. 2020. *Journal of Economic Perspectives*. Vol 34 (1), pp 145-169 (with Robin Burgess, Michael Greenstone, and Nicholas Ryan).

'Nudges in the marketplace: The response of household electricity consumption to information and monetary incentives'. 2017. *Journal of Economic Behavior and Organization*, Vol. 134, pp. 320-335

'The Solvable Challenge of Air Pollution in India.' *India Policy Forum 2017*. (with Michael Greenstone, Santosh Harish, Rohini Pande).

'Lower Pollution, Longer Lives: Life Expectancy Gains if India Reduced Particulate Matter Pollution'. 2015. *Economic and Political Weekly.*, L(8), pp. 40-46. (with Michael Greenstone, Janhavi Nilekani, Rohini Pande, Nicholas Ryan, Anish Sugathan)

'Deconstructing the Rosenfeld Curve: Making sense of California's low electricity intensity'. 2013. *Energy Economics*, Vol. 39, 197-207.

'Real-time Feedback and Electricity Consumption: A Field Experiment Assessing the Potential for Savings and Persistence'. 2013. *The Energy Journal*, Vol. 34(1). (with Sebastien Houde, Annika Todd, June A. Flora and Carrie K. Armel)

'Psychohistory Revisited: Fundamental issues in forecasting climate futures'. 2011. *Climatic Change*, Vol. 104(3-4), pp 457-472. (with Cullenward, D., Schipper, L., and Howarth, R).

'Transport and carbon emissions in the United States: The long view'. 2011. *Energies (Special Issue on Energy-Friendly Transportation)*, Vol. 4(4). pp 563-581. (with Schipper, L. and Saenger, C.).

'How can economic schemes curtail the increasing sex ratio at birth in China?'. 2008. *Demographic Research*. Vol 19. pp. 1831-1850. (with Bhattacharjya, D., Tuljapurkar, S., Shachter, R. and Marcus Feldman).

'Weather data mining using independent component analysis.' 2004. *Journal of Machine Learning Research*. Vol 5. pp. 239-253. (with Basak, J., Trivedi, D. and M. S. Santhanam).

WORKING PAPERS The Demand for Electricity on the Global Electrification Frontier. 2021. (With Robin Burgess, Michael Greenstone, Nicholas Ryan).

The value of clean water: Experimental evidence from rural India. (With Fiona Burlig and Amir Jina).

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. Forthcoming. In T. Madon et al (eds). *Introduction to Development Engineering*. Springer Nature.

RECENT GRANTS

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*).

INVITED
AFFILIATIONS

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)

Member of Climate Change, Environment, and Ecology Working Group, Social Sciences Grand Challenge, University of Warwick

Research Associate, STICERD Economics of Environment and Energy Program, London School of Economics
Research Affiliate, International Growth Centre
Fellow, Energy for Growth Hub, 2018-2021.
Research Affiliate, International Growth Centre
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 2023-2024: Environmental Economics (MSc Year 2 Module)
University of Warwick, Coventry, UK
Term 2 2022-: 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