

ANIRUDDH MOHAN

Department of Engineering and Public Policy,
5215 Wean Hall, Carnegie Mellon University, Pittsburgh, PA 15213



EDUCATION

Carnegie Mellon University , Pittsburgh, PA, United States PhD in Engineering and Public Policy <u>Thesis Committee</u> : Parth Vaishnav, Venkat Viswanathan (CMU Mechanical Engineering) Nicholas Z. Muller, Jeremy Michalek, Jessika Trancik (MIT IDSS)	2018-Present
University of Cambridge , Cambridge, United Kingdom MPhil - Nuclear Energy	2012-2013
University of Manchester , Manchester, United Kingdom First Class BEng. Hons. Mechanical Engineering	2009-2012

SELECTED HONORS AND AWARDS

Carnegie Mellon University Presidential Fellowship	2020
Herbert L. Toor Award for Best Paper – Department of Engineering and Public Policy PhD Qualifying Exams, Carnegie Mellon University	2020
People's Choice Award – Carnegie Mellon Energy Week Poster Competition	2019
Second Prize – Columbia University International Energy Case Competition	2019
Alexander von Humboldt Foundation International Climate Protection Fellowship	2017
British Petroleum Scholarship for Outstanding Students - University of Manchester	2011
British Petroleum Scholarship for Outstanding Students - University of Manchester	2010

ACADEMIC JOURNAL PUBLICATIONS

Impact of automation on long-haul trucking operator-hours in the United States

Humanities and Social Sciences Communications (2022)

Aniruddh Mohan, Parth Vaishnav

UNFCCC must confront the political economy of net-negative emissions

One Earth (2021)

Aniruddh Mohan, Oliver Geden, Mathias Fridahl, Holly Jean Buck, Glen P. Peters

Trade-offs between automation and light vehicle electrification

Nature Energy (2020)

Aniruddh Mohan, Shashank Sripad, Parth Vaishnav, Venkat Viswanathan

Is India pulling its weight? India's nationally determined contribution and future energy plans in global climate policy

Climate Policy (2019)

Aniruddh Mohan, Timon Wehnert

India's energy future: Contested narratives of change

Energy Research & Social Science (2018)

Aniruddh Mohan, Kilian Topp

From Rio to Paris: India in Global Climate Politics

Rising Powers Quarterly (2017)

Aniruddh Mohan

Whose land is it anyway? Energy futures & land use in India

Energy Policy (2017)

Aniruddh Mohan

Plus ça change, plus c'est la même chose: Adaptation in the Paris Agreement

India Quarterly (2016)

Vikrom Mathur, Aniruddh Mohan

WORKING PAPERS / PREPRINTS

Sustained cost declines in solar PV and battery storage needed to eliminate coal generation in India

arXiv preprint (2021)

Aniruddh Mohan, Shayak Sengupta, Parth Vaishnav, Rahul Tongia, Asim Ahmed, Ines L. Azevedo

The Growth of Nations Revisited: Global Environmental Accounting from 1998 to 2018.

National Bureau of Economic Research Working Paper Series (2020)

Aniruddh Mohan, Nicholas Z. Muller, Akshay Thagyarajan, Randall V. Martin, Melanie S. Hammer, Aaron von Donkelaar

WORK EXPERIENCE

Wuppertal Institute for Climate, Environment & Energy , Wuppertal, Germany Alexander von Humboldt Foundation International Climate Protection Fellow	2017-2018
Observer Research Foundation , New Delhi, India Junior Fellow	2015-2016
Institute for Defense Studies & Analyses , New Delhi, India Research Intern	2014

INVITED TALKS & CONFERENCE PRESENTATIONS

"Agent based modelling of ridesourcing operations" *Chalmers University, Department of Space, Earth and Environment, Remote* (March 2022)

"Global Environmental Pollution: costs and opportunities." *Pacific Northwest National Laboratory, Joint Global Change Research Institute, Remote* (February 2022)

"Emerging trade-offs and opportunities in sustainable urban mobility." *Princeton University, Department of Civil and Environmental Engineering, Remote* (February 2022)

"Tradeoffs between automation and light vehicle electrification" *Transportation Research Board 101st Annual Meeting, Subcommittee on Energy and Demand Implications of Connected and Automated Vehicles, AMS30(3), Washington D.C.* (January 2022)

"Impact of automation on long haul trucking operator hours in the United States" *Transportation Research Board 101st Annual Meeting, Washington D.C.* (January 2022) [Poster]

"Tradeoffs between automation and light vehicle electrification" *Transportation Research Board 101st Annual Meeting, Washington D.C.* (January 2022) [Poster]

"Sustained cost declines in solar PV and battery storage needed to eliminate coal generation in India." *United States Association for Energy Economics (USAEE), Remote* (November 2021)

"Tradeoffs between automation and light vehicle electrification." *United States Association for Energy Economics (USAEE), Remote* (November 2021)

"Sustained cost declines in solar PV and battery storage needed to eliminate coal generation in India." *Battery Modelling Webinar Series (BWMS), Remote* (August 2021)

"The growth of nations revisited: global environmental accounting from 1998 to 2018." *ETH Zurich Sustainability Academy, Remote* (September 2020)

"Automation is no barrier to light vehicle electrification" *Florida Autonomous Vehicles Summit, Miami, Florida* (November 2019) [Poster]

"Automation is no barrier to light vehicle electrification" *Carnegie Mellon Electricity Industry Center Annual Meeting, Pittsburgh, PA* (October 2019)

"Can autonomous light vehicles be fully electric?" *Centre for Climate and Energy Decision Making Annual Meeting, Pittsburgh, PA* (May 2019)

"Can autonomous light vehicles be fully electric?" *Centre for Climate and Energy Decision Making Seminar, Pittsburgh, PA* (April 2019)

"Can autonomous light vehicles be fully electric?" *Carnegie Mellon University Energy Week Poster Competition, Pittsburgh, PA* (March 2019) [Poster]

"The social dimensions of energy transitions in India" *Alexander von Humboldt Foundation International Climate Protection Fellowship Seminar, Berlin, Germany* (February 2018)

"Non-state actors and equity in global climate policy" *United Nations Framework Convention on Climate Change (UNFCCC) Subsidiary Body 46 Conference, Bonn, Germany* (May 2017)

SELECTED MEDIA COVERAGE

Bloomberg, [Robot Truckers Could Replace 500K U.S. Jobs](#), March 2022

The Hill, [Self-driving semis may revolutionize trucking while eliminating hundreds of thousands of jobs](#), March 2022

Bloomberg, [Why the Cars of Our Self-Driving Future Will Be Electric](#), July 2020

Wired, [The intersection between self-driving cars and electric cars](#), July 2020

Axios, [The case for all-electric self-driving cars](#), June 2020

E&E news, [Will self-driving cars slow the EV boom? It depends](#), July 2020

Greencar Congress, [CMU team evaluates range and battery trade-offs between vehicle automation and electrification](#), July 2020

GRADUATE COURSEWORK

Engineering: Probability and Estimation Methods for Engineering Systems; Practical Data Science; Applied Data Analysis; Engineering Optimization

Energy & Climate: Seminar in Electricity Market Restructuring; Sustainability, Energy, and Environmental Economics; Optimization Models for Power System Operation, Planning & Monitoring

Economics & Policy: PhD Microeconomics; Theory & Practice in Policy Analysis; Quantitative Methods for Policy Analysis; Applied Policy Analysis; Macroeconomics

TEACHING EXPERIENCE

Carnegie Mellon University

Teaching Assistant, Applied Methods for Technology-Policy Analysis (Spring 2020)

Participant - Future Faculty Program, Eberly Center for Teaching Excellence & Innovation (Fall 2021)

PROFESSIONAL SERVICE

Expert Reviewer

Joule, Energy Policy, Climate Policy, iScience, Energy Research & Social Science, India Quarterly, Energy Advances

SELECTED OPINION COLUMNS & COMMENTARY

VoxEU, [Growth, sustainability, and the measurement of global gross product](#) [with Akshay Thaggarajan, Nicholas Z. Muller], July 2020

Hindustan Times, [Covid-19: India needs a green economic stimulus](#) [with Madalsa Singh], April 2020

The Wire, [NITI Aayog's Draft Energy Policy Shows We Still Remain a Country of Coal Men](#), July 2017

Quint, [Make Nuclear Indian Again: Why Toshiba's Exit Is Not All Bad News](#), February 2017

Australian Strategic Policy Institute, [Indian Climate Policy in a Post-Paris World](#) [with Samir Saran], February 2016

Brookings, [The time for a "New Deal" for climate change is now](#), September 2015

LANGUAGE & PROGRAMMING SKILLS

Languages	English, Hindi, Spanish (European Level B1), German (European Level A2)
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Programming	Proficient in MATLAB, Julia, GAMS, Python, R
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