

# ANIRUDDH MOHAN

Suite 211A, 86 Olden Street, Princeton University, Princeton, NJ 08540



## EDUCATION

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<b>Carnegie Mellon University</b> , Pittsburgh, PA, United States	2018-2022
PhD in Engineering and Public Policy Thesis Committee: Parth Vaishnav, Venkat Viswanathan (CMU Mechanical Engineering) Nicholas Z. Muller, Jeremy Michalek, Jessika Trancik (MIT IDSS)	
<b>University of Cambridge</b> , Cambridge, United Kingdom	
MPhil - Nuclear Energy	
<b>University of Manchester</b> , Manchester, United Kingdom	
First Class BEng. Hons. Mechanical Engineering	

## SELECTED HONORS AND AWARDS

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

## ACADEMIC JOURNAL PUBLICATIONS

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- Mohan, A., & Vaishnav, P. (2022). **Impact of automation on long haul trucking operator-hours in the United States**. *Humanities and Social Sciences Communications*, 9(1), 1-10.
- Mohan, A., Geden, O., Fridahl, M., Buck, H. J., & Peters, G. P. (2021). **UNFCCC must confront the political economy of net-negative emissions**. *One Earth*, 4(10), 1348-1351.
- Mohan, A., Sripad, S., Vaishnav, P., & Viswanathan, V. (2020). **Trade-offs between automation and light vehicle electrification**. *Nature Energy*, 5(7), 543-549.
- Mohan, A., & Wehnert, T. (2019). **Is India pulling its weight? India's nationally determined contribution and future energy plans in global climate policy**. *Climate policy*, 19(3), 275-282.
- Mohan, A., & Topp, K. (2018). **India's energy future: Contested narratives of change**. *Energy research & social science*, 44, 75-82.
- Mohan, A. (2017). **From Rio to Paris: India in Global Climate Politics**. *Rising Powers Quarterly*, 2(3), 39-61
- Mohan, A. (2017). **Whose land is it anyway? Energy futures & land use in India**. *Energy Policy*, 110, 257-262.

Mathur, V., & **Mohan, A.** (2016). **Plus ça change, plus c'est la même chose: Adaptation in the Paris Agreement.** *India Quarterly*, 72(4), 330-342.

## WORKING PAPERS / PREPRINTS

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Life cycle air pollution, greenhouse gas, and traffic externality benefits and costs of electrifying Uber and Lyft  
*Submitting to Environmental Science & Technology in September 2022*

**Aniruddh Mohan**, Matthew Bruchon, Jeremy Michalek, Parth Vaishnav

**Sustained cost declines in solar PV and battery storage needed to eliminate coal generation in India**  
*arXiv preprint (2021) – Revise & Resubmit at Environmental Research Letters (2022)*

**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 Thaggarajan, Randall V. Martin, Melanie S. Hammer, Aaron von Donkelaar

## WORK EXPERIENCE

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**Princeton University, Andlinger Center on Energy and the Environment**, Princeton, USA 2022-Present  
Distinguished Postdoctoral Fellow

**Wuppertal Institute for Climate, Environment & Energy**, Wuppertal, Germany 2017-2018  
Alexander von Humboldt Foundation International Climate Protection Fellow

**Observer Research Foundation**, New Delhi, India 2015-2016  
Junior Fellow

## INVITED TALKS & CONFERENCE PRESENTATIONS

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"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 101<sup>st</sup> 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 101<sup>st</sup> Annual Meeting, Washington D.C.* (January 2022) [Poster]

"Tradeoffs between automation and light vehicle electrification" *Transportation Research Board 101<sup>st</sup> 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)*

## TEACHING EXPERIENCE

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### **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)

## SELECTED MEDIA COVERAGE

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**Wall Street Journal**, [Self-Driving Big Rigs Are Coming. Is America Ready?](#) June 2022

**New York Times**, [A look under the hood of the trucking industry](#), April 2022

**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

## PROFESSIONAL SERVICE

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**Expert Reviewer** *Joule, Energy Policy, Climate Policy, iScience, Energy Research & Social Science, India Quarterly, Energy Advances, Transport Policy*

## SELECTED OPINION COLUMNS & COMMENTARY

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

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

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

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**Languages** English, Hindi, Spanish (European Level B1), German (European Level A2)

**Programming** Proficient in MATLAB, Julia, GAMS, Python, R