ABHISHEK MALHOTRA	Curriculum Vitae
E-Mail: abhishek_malhotra@hks.harvard.edu, amalhotra6@iitd.ac.in; Mobile: +1 617 685 9668, +91 99100 56028	
Experience	
Harvard Kennedy School, Belfer Center, Postdoctoral Research Fellow - Working on a public policy roadmap for green hydrogen by evaluating techno-economic performance in different end uses.	09/2021 - Present
IIT Delhi, School of Public Policy, Assistant Professor - Co-developing and managing research projects on policies and institutions for clean energy innovation in developing and emerging economies, clean energy entrepreneurship in India, and deep decarbonization of the power sector of Madhya Pradesh.	09/2020 - Present
World Bank , Consultant - Collected and compiled financial data of state-owned enterprises in the power and transport sectors in developing countries globally.	12/2019 - 08/2020
ETH Zurich, Energy Politics Group , Research Associate/Postdoctoral Researcher - Conducted research on public policies to support innovation in low-carbon energy technologies with fieldwork in India, South Africa and Mexico.	02/2015 - 10/2019
United Nations Development Program , Consultant - Co-authored a report on derisking renewable energy investment for off-grid electrification in developing countries.	05/2015 - 12/2015
International Renewable Energy Agency (Bonn, Germany) , Internship - Co-authored a global roadmap for integration of high shares of variable renewables in power systems.	11/2013 - 04/2014
UNCTAD, Division on Technology and Logistics (Geneva, Switzerland), Internship - Contributed to the Technology and Innovation Report 2015 and the Science, Technology and Innovation for Sustainable Urbanization Report 2014.	06/2013 - 08/2013
Indian Institute of Technology Delhi and UNICEF India, Consultant - Reviewed innovations using technology for development in India for the UNICEF India Innovation Lab.	05/2012 - 08/2012
EDUCATION	
Doctor of Science, Dept. of Humanities, Social and Political Sciences, ETH Zurich <i>Title</i> : "Policy design for low-carbon development: Case studies on technological change in the electricity sector"	02/2015 - 03/2019
M. Sc. in Energy Science and Technology, ETH Zurich <i>Master Thesis</i> : "Business models for electricity energy storage technologies for islands and microgrids", Dept. of Management, Technology, and Economics.	09/2012 - 12/2014
B. Tech. in Mechanical Engineering, Indian Institute of Technology Delhi <i>Bachelor Thesis</i> : "Evaluation of India's wind energy potential", Dept. of Humanities and Social Sciences, and Center for Atmospheric Sciences.	07/2008 - 05/2012

PEER-REVIEWED PUBLICATIONS

Malhotra, A., Mathur, A., Diddi, S. and Sagar, A.D., 2021. Building institutional capacity for addressing climate and sustainable development goals: achieving energy efficiency in India. Climate Policy, pp. 1-19.

Malhotra, A., Zhang, H., Beuse, M., Schmidt, T., 2021. How do changes in the use environment influence a technology's knowledge trajectory? A patent citation network analysis of Li-ion battery technology. Research Policy, 50(9), 104318.

Malhotra, A., Schmidt, T., 2020. Accelerating low-carbon innovation. Joule, 4 (11), 2259-2267.

Malhotra, A., Schmidt, T., Huenteler, J., 2019. The role of inter-sectoral learning in knowledge development and diffusion: Case studies on three clean energy technologies. Tech. Forecasting and Social Change, 146, 464-487.

Malhotra, A., Schmidt, T., Haelg, L., Waissbein, O., 2017. Scaling up finance for off-grid renewable energy: The role of aggregation and spatial diversification in derisking investments for rural electrification in India. Energy Policy, 108, 657–672.

Malhotra, A., Battke, B., Beuse, M., Stephan, A., Schmidt, T., 2016. Use cases for stationary battery technologies: A review of the literature and existing projects. Renewable and Sustainable Energy Reviews, 56, 705-721.

WORKING PAPERS

Malhotra, A., Trade-offs and synergies in power sector policy mixes: The case of Uttar Pradesh, India (under review).

Matsuo, T., Malhotra, A., Schmidt, T., Catching up in green industries: The role of product architecture (submitted).

Krishna, H., Kashyap, Y., Dutt, D., Sagar, A., Malhotra, A., India's low-carbon energy technology startup landscape.

Sewerin, S., Beuse, M., **Malhotra**, A., Lonergan, K., Maeder, M., Zhu, W., Schmidt, T., Comparing major economies' policy mixes targeting lithium-ion batteries.

Malhotra, A., Kaack, L., Casaluce, R., Schmidt, T., Measuring the locus of technological complexity at scale to inform clean energy innovation policy.

POLICY REPORTS

Phylipsen, D., de Coninck, H., Sagar, A., **Malhotra, A.**, 2021. Compilation of good practices and lessons learned on international collaborative RD&D initiatives of climate technology. UNFCCC TEC, Bonn, Germany.

Waissbein, O., Bayraktar, H., Henrich, C., Schmidt, T., **Malhotra, A.**, 2018. Derisking Renewable Energy Investment: Off-Grid Electrification. UNDP, New York, and ETH Zürich, Switzerland.

Kempener, R., **Malhotra, A.**, Vivero, G., 2015. The Age of Renewable Power: Designing National Roadmaps for a Successful Transformation. International Renewable Energy Agency, Abu Dhabi.

PROFESSIONAL SERVICE, TEACHING AND MENTORING

- Reviewer for Joule, Research Policy, Energy Policy, Climate Policy, and Innovation and Development	2016 – Present
- Supervising one PhD student.	08/2021 – Present
- Taught course on "Governance Challenges in Energy Systems in Transition", IIT Delhi.	2021
- Taught modules on "Renewable Energy Investment Risks and Derisking", "Introduction to Electricity Access" and "Finance for Electrification" at the Engineering for Development (E4D) Summer Schoo on Low-Carbon Energy and Development Strategies, University of Cape Town.	
- Teaching Assistant, "Quantitative Policy Analysis and Modeling" and "Technology and Policy o Electrical Energy Storage", Institute of Science, Technology and Policy, ETH Zurich.	f 2015 – 2018

- Thesis advisor for four Master Theses and two Semester Theses, ETH Zurich. 2015 – 2020

SCHOLARSHIPS AND AWARDS

Swiss Federal Scholarship for Foreign Students: Full tuition and living expenses for master studies in Switzerland.	2012 - 2014
IIT Delhi Semester Merit Award: Scholarship for being among the top 7% students.	2009, 2011
National Talent Search Examination Scholarship: Awarded by the National Council of Educational Research and Training	2006 - 2012
CONFERENCE PRESENTATIONS AND INVITED TALKS (SELECTED)	
"COP26 and its implications for automotive sector: A national perspective", Society of Indian Automobil Manufacturers Lecture #19 on "Vision Sustainable Mobility: Implications of COP26".	e 12/2021
"Navigating trade-offs in India's low-carbon development strategy", Ahmedabad University - CTIE Conference 2021: Changing Nature of Innovation.	R 05/2021
"The Future of Green India: The Role of Innovation and Industrial Policy", Webinar on Climate and Energ Policy in India, Harvard University.	y 04/2021
"How do changes in the use environment influence an industry's knowledge trajectory? A patent citation network analysis of the lithium-ion battery industry", Battery Modeling Webinar Series, Carnegie Mello University.	
"How 'technology-smart' are governments? An analysis of policy mixes aimed at catching-up in the lithium ion battery industry", Open Lecture at the Jindal School of Government and Public Policy, Sonipat, India.	- 11/2019
"Trade-offs and synergies in power sector policy mixes: The case of Uttar Pradesh, India", Workshop o Sustainable Energy Systems in Emerging and Developing Economies, Frankfurt School of Finance & Management, Frankfurt, Germany.	
"Catching-up in complex technology industries – A patent-citation network analysis to identify windows of opportunity in the lithium-ion battery industry", 17 th Conference of the International Schumpeter Societ (ISS), Seoul, Republic of Korea.	
"Technological Learning in Low-Carbon Innovation Policy", Center for International Environment and Resource Policy Research Seminar, Tufts University, Boston, USA.	d 04/2018
"Derisking Small-Scale Renewable Energy Investment", Workshop on Developing a Sustainable Energ Supply for Africa: Opportunities for Investment and Economic Transformation, Institute for Advance Sustainability Studies, Potsdam, Germany.	
"Scaling up investment in clean energy in developing countries", UN Climate Change Talks (UNFCCO COP21), Official side event, Paris, France.	2 12/2015
CONTINUING EDUCATION	
- Summer school on Advanced Machine Learning Methods, GSERM Summer School (5 days). - Workshop on Introduction to Machine Learning Methods, ETH Zurich (2 days).	06/2019 05/2019

- workshop on introduction to machine learning methods, E111 Zurien (2 days).	05/2017
- Summer school on Multiple Regression Analysis, ECPR Summer School (5 days).	07/2017

05/2017

- Training on Learning to Teach, ETH Zurich (3 days).

LANGUAGES

Hindi (Mother tongue), English (Fluent), German (Intermediate - Level B2), French (Basic - Level A2).