

## MARION DUMAS

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### SKILLS AND EXPERTISE

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#### Subject Expertise:

- environmental economics
- net-zero transition
- technological change
- just transitions
- environmental governance

#### Skills:

- policy, strategy and methodological advising
- modelling
- policy evaluation

### EMPLOYMENT

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2017-present Assistant Professorial Research Fellow  
Grantham Research Institute  
London School of Economics and Political Science

2015-2017 Omidyar Fellow, Santa Fe Institute

### RECENT CONSULTING EXPERIENCE

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2022-present Senior Advisor, McKinsey – Green Inclusive Growth Research

2022 Academic Advisor and Author – Swedish Energy Agency/Oxford Smith School  
*[The role of Ministries of Finance in driving and shaping the low-carbon energy transition](#)*

2022-present Methodology Advisor – Bend Inc. – Measuring supply-chain emissions

2021 Consultant – HSBC Sustainable Finance Centre  
*[Green Skills for the Low-carbon Transition](#)*

2021 Consultant – Vivid Economics/2dii  
*[Value of Life - What would climate policies look like if they mirrored the COVID-19 response?](#)*

2020 Consultant and Author – Resources for the Future  
*[Regional Just Transitions in the UK: Insights from 40 Years of Policy Experience](#)*

### EDUCATION

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2009 - 2015 Columbia University, Ph.D. in Sustainable Development

2007 - 2009 M.Sc., ETH Zürich, Major in Ecology and Evolution

2002-2006 B.Sc., Massachusetts Institute of Technology, Major: Environmental Sciences  
Department of Earth, Atmospheric and Planetary Sciences

### PROJECTS

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**ADJUST** – Advancing the understanding of challenges, policy options and measures to achieve a Just EU Energy Transition

**GREENING THE AUTOMOTIVE INDUSTRY** – Explaining how global automakers switched to electric vehicles

**AI TO GREEN** – Investigating whether AI can accelerate the green transition

**MAINSTREAMING GREEN CONSUMERISM** – Investigating the conditions under which green goods become affordable to all

**GLOBAL ATLAS OF ECOLOGICAL CONSUMPTION** – Quantifying the distribution of carbon footprints within and across countries, taking into account the heterogeneous quality of products

## SELECTED PUBLICATIONS

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### ARTICLES

Pia Andres, Eugenie Dugoua, and Marion Dumas. (2022). “Directed Technological Change and General Purpose Technologies: Can AI Accelerate Clean Energy Innovation?” GRI Working Paper.

Eugenie Dugoua, Marion Dumas, and Joëlle Noailly. (2022). Text as Data in Environmental Economics and Policy. *Review of Environmental Economics and Policy* 16 (2): 346–56.

Xiaofan Liang, Ryan Taylor, Geoffrey West, Marion Dumas (PI), and Chris Kempes (PI), 2021. Institutional Efficiency and Complexity: The Scale and Scope of Universities, *PlosOne*<sup>1</sup>.

Dugoua, Eugenie and Marion Dumas (2021). Green Product Innovation in Industrial Networks. *Journal of Environmental Economics and Management*, Vol 107, 102420

Brelsford, Christa, Marion Dumas et al., 2018. Developing a sustainability science approach for water systems, *Ecology & Society* Vol 25(2): 1-6:

Dumas, Marion, 2017. Taking the Law to Court: Citizen Suits and the Legislative Process, *American Journal of Political Science* Vol 61(4): 944-957.

Dumas, Marion, James Rising, and Johannes Urpelainen, 2016. Political Competition and Renewable Energy Transitions over Long Time Horizons: A Dynamic Approach, *Ecological Economics* Vol 124 (2016): 175-184.

### WORKSHOPS, GRANTS, AWARDS, SERVICE

2022-	Horizon Europe, AdJUST Consortium, co-PI
2021-	Section Editor, Global Sustainability
2021	NBER – Economics of Innovation in the Energy Sector Second Meeting
2020	NBER – Economics of Innovation in the Energy Sector First Meeting
2020	Rebuilding Macroeconomics Sustainability Hub ~ The dynamics of green product innovations ~ 60,000 pounds.
2019	Emerging Approaches for Measuring Institutions at Scale, Sixth Workshop on the Ostrom Workshop, Indiana University, Bloomington Indiana.
2018	AXA Future Research Leader Fellowship ~ Firm networks, coordination failures and the role of industrial policy in the low-carbon transition ~ 125,000 euros.
2017	\$50,000 grant from the National Science Foundation for workshop proposal
2013	Mellon Fellowship.
2010	Sasakawa Young Leaders Fellowship Fund Grant for summer research.
2010	ETH Medal for Excellence in Research.
2009-2014	Columbia Graduate Fellowship.
2009-2012	Stanford Graduate Fellowship (declined).
2006	MIT Goetze Prize for Undergraduate Research.

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<sup>1</sup> Note: we used the natural science convention of putting the PIs last and the students first.