

Pia Andres

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My goal as a researcher is to explore how technological change can best advance prosperity and help us achieve economic, environmental and social justice. I am particularly interested in how we may reconcile meeting the climate challenge with global and regional objectives for economic development and equity, and how countries, institutions and individuals learn, change and adapt to a changing reality.

CURRENT POSITION

Researcher

Oxford Martin School

Since Apr 2022

Supervisor: Dr Carl Benedikt Frey

Research Programme: Future of Work

Research topics related to the interactions between technological change (such as in advances in Artificial Intelligence) and organisational structure, skills, innovation and trade.

EDUCATION

PhD Environmental Economics

The London School of Economics and Political Science

Since Sept 2018

Doctoral thesis (working title): Trade, Competitiveness and Innovation in Clean (and Dirty) Technology

Supervisors: Dr Roger Fouquet & Dr Misato Sato

Research Visits:

- University of Oslo, Department of Economics May – June 2022
Faculty host: Professor Bård Harstad
- Columbia University School of International and Public Affairs Sept – Dec 2021
Faculty host: Professor Scott Barrett

MSc Environmental Economics and Climate Change

Distinction

The London School of Economics and Political Science

Sept 2017 – Aug 2018

MA (Social Sciences) Economics (UG)

First Class Honours

The University of Glasgow

Sept 2013 – June 2017

WORK IN PROGRESS

Was the Trade War Justified? – Solar PV Innovation in Europe and the Impact of the “China Shock”

Infant Industries and Global Public Goods Provision – Rethinking the Environmental Trade Agreement

Stranded Economies? – Green Transition Opportunities for Brown Industries (with Penny Mealy, Nils Handler and Samuel Fankhauser)

WORKING PAPERS

Andres, Pia, Eugenie Dugoua, and Marion Dumas (2022): “Directed Technological Change and General Purpose Technologies: Can AI Accelerate Clean Energy Innovation?” *Centre for Climate Change Economics and Policy Working Paper 403/Grantham Research Institute on Climate Change and the Environment Working Paper 378*. London: London School of Economics and Political Science

POLICY PUBLICATIONS

Serin, Esin, Anna Valero, Ralf Martin, Arjun Shah, **Pia Andres**, and Penny Mealy (2021): *Seizing sustainable growth opportunities from carbon capture, usage and storage in the UK*. London: Centre for Climate Change Economics and Policy, Grantham Research Institute on Climate Change and the Environment and Centre for Economic Performance, London School of Economics and Political Science.

Andres, Pia, and Penny Mealy (2021): *Navigating the green transition: insights for the G7*. London: Grantham Research Institute on Climate Change and the Environment and Centre for Climate Change Economics and Policy, London School of Economics and Political Science.

Unsworth, Sam, **Pia Andres**, Giorgia Cecchinato, Penny Mealy, Charlotte Taylor, and Anna Valero (2020): "Jobs for a strong and sustainable recovery from Covid-19." *Centre for Economic Performance Covid-19 Analysis CEPCOVID-19-010*.

RESEARCH IMPACT WORK

Green Transition Navigator (www.green-transition-navigator.org)

The London School of Economics and Political Science July 2020 – present
Interactive web tool visualising research-based measures and analysis to help guide green industrial strategy. Developed in collaboration with Dr Penny Mealy (World Bank Group). Launched 11 June 2021. Funding received through the LSE's Lean Accelerator Program and Knowledge Exchange and Impact Fund.

GRANTS, AWARDS & FELLOWSHIPS

PhD KEI grant (£5,000) , LSE Knowledge Exchange and Impact	2021-22
Fulbright-Schuman Visiting Student Researcher Grant (€10,000) and AT&T Award (\$5,000) , Fulbright Commission in Belgium	2021-22
Lean Accelerator Venture Grant (£2,000) , LSE Innovation	2020-21
Grantham Research Institute PhD Scholarship , London School of Economics	2018-22
Adam Smith Scholar Award of Excellence , University of Glasgow	2016-17
Macfie Bequest (Economics Second Prize) , University of Glasgow	2013-14, 2014-15

RESEARCH EXPERIENCE

Research Assistant

Oxford School of Geography and the Environment Feb–Mar 2022, July – Aug 2021
Supervisor: Professor Sam Fankhauser
Research focus: climate-compatible export upgrading and structural transformation (within the Climate Compatible Growth Programme)

Research Assistant

Grantham Research Institute on Climate Change and the Environment Oct 2017 – Mar 2022
Supervisor: Dr Misato Sato
Research focus: trade in environmental goods and services

Research Assistant

LSE STICERD July – Aug 2021
Supervisor: Dr Eugenie Dugoua
Research focus: green innovation

TEACHING EXPERIENCE

Graduate Teaching Assistant

The London School of Economics and Political Science Sept 2019 – June 2020
Courses:

- EC102 Economics B (introductory course in microeconomics and macroeconomics)
- GY313 Firms and Economic Geography: Location, Technology and Innovation

Duties:

- Leading seminar discussions
- Guiding students through problem sets
- Marking essay- and problem-based coursework and exams
- Supporting students during office hours

OTHER PROFESSIONAL EXPERIENCE

Analyst

Vivid Economics

Oct 2020 – Jan 2021, July – Sept 2019

Part-time analyst in the Climate Strategy, Growth & Development and Energy & Industry practice areas. Projects included modelling mineral demand under different climate scenarios and mapping suitable locations for solar irrigation pumps in Bangladesh.

Postgraduate Intern

Bank of England

June – Aug 2017

Worked in the Central Counterparties Policy & Risk Team within the Financial Markets Infrastructure Directorate and led on a data-focused project.

Knowledge Exchange Events Intern

University of Glasgow

Sept 2016 – March 2017

Supported the College of Social Science Research Support Office in organising events for knowledge exchange purposes.

Government Economic Service Intern

Office for National Statistics

June – Sept 2016

Worked in the division for Well-being, Inequalities, Sustainability and Environment at the Office for National Statistics.

SKILLS & QUALIFICATIONS

IT Skills LaTeX, STATA, Python, R, QGIS, Microsoft Office

Languages German (Native), English (Cambridge ESOL Certificate in Advanced English, grade A), French (Diplôme d'Etudes en Langue Française, CEFR Level B2)

INVITED TALKS

Presenter

Department of Economics, Oslo Metropolitan University

June 2022

Paper: “Directed Technological Change and General Purpose Technologies: Can AI Accelerate Clean Energy Innovation?”

Chair

LSE Economics Symposium 2021: Towards Net Zero

Dec 2021

Session on the Energy Transition within the annual Symposium organised by the LSESU Economics Society with Karen Pittel (Ifo Centre for Energy, Climate, and Resources) and Lucas Bretschger (ETH Zurich)

Panellist

Economics and Policy for Climate Compatible Growth

Nov 2021

COP26 side event hosted by the Climate Compatible Growth Programme with Somik Lall (World Bank Group), Matt Kahn (World Bank Group) and Philipp Trotter (Oxford CCG); chaired by Rick van der Ploeg (Oxford CCG)

Panellist

British Institute of Energy Economists: Energy for a Net Zero Society

Sept 2021

Dialogue session: “Why innovation is vital to achieving net zero” with Antonia Mattos (Department for

Business, Energy and Industrial Strategy) and Eugenie Dugoua (London School of Economics); chaired by Ana Barbedo (Vivid Economics)

SELECTED CONFERENCES & WORKSHOPS

Presenter

European Association for Environmental and Resource Economists
(EAERE) Annual Conference June 2022
Paper: “Directed Technological Change and General Purpose Technologies: Can AI Accelerate Clean Energy Innovation?”

Presenter

Columbia University IPWSD 2022: Interdisciplinary PhD Workshop
in Sustainable Development Apr 2022
Paper: “Directed Technological Change and General Purpose Technologies: Can AI Accelerate Clean Energy Innovation?”

Presenter

European Association for Environmental and Resource Economists
(EAERE) Annual Conference June 2021
Paper: “Was the Trade War Justified? – Solar PV Innovation in Europe and the Impact of the ‘China Shock’”

Presenter

LSE-Imperial Workshop in Environmental Economics June 2021
Paper: “Was the Trade War Justified? – Solar PV Innovation in Europe and the Impact of the ‘China Shock’”

Presenter

Columbia University IPWSD 2020: Interdisciplinary PhD Workshop
in Sustainable Development Apr 2020
Paper: “Was the Trade War Justified? – Solar PV Innovation in Europe and the Impact of the ‘China Shock’”

Coordinator

Glasgow Economic Forum 2017 Mar 2017

Academic Team Leader

Glasgow Economic Forum 2016 Mar 2016

ACADEMIC SERVICE & MEMBERSHIPS

Referee

Research Policy

Associate Fellow

UK Higher Education Academy (HEA) Mar 2021 – present
LSE Principles of Teaching in Higher Education – Associate Fellowship Programme completed during the academic year 2019-20. Fellowship reference: PR210549

Member

European Association of Environmental and Resource Economists Sept 2018 – present

Organiser

Applied economics work-in-progress seminar Sept 2019 – June 2021
PhD-only work-in-progress seminar at the LSE’s Department for Geography & Environment.