

LORENZO DI LUCIA

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Nationality: Italian (UK settled status)



QUALIFICATIONS

PhD in Environmental and Energy System Studies | Lund University, 2012

Dissertation 'Public policy and the governance of biofuel systems'.

MSc Environmental and Sustainability Science | Lund University, 2005

Dissertation 'Greening the European Union with Biofuels: Policy Opportunities and Dilemmas'.

Master of International Law | University of Milan Bicocca, 2002

Dissertation in international environmental law 'The protection of the Amazon forest in Brazil between national and international responsibilities'.



EMPLOYMENT HISTORY

Research Fellow | Imperial College London, 2017 - present

- Independent research on bio-based supply chains, low-carbon heating and trade-offs between deep decarbonisation and UN SDGs.
- Developed an international network of >20 collaborators.
- Supervised one Post-Doc Researcher and 8 MSc projects.

Visiting Researcher | Chalmers University of Technology (Sweden), 2019 - present

- Innovative research on decision support tools for analysing interactions between the UN SDGs. Led publication of results in high-ranking journal (Nature Sustainability).

External supervisor & examiner | University of London, 2016 – present

- Supervised 11 MSc projects and marked 15+ projects, Centre for Development, Environment and Policy, School of Oriental and African Studies.

Senior Analyst | LCAworks Ltd, 2017 - 2019

- Led work on two feasibility studies for agro-industrial projects in Kenya's drylands (energy from coconut shells, and animal feed and energy from hydroponic duck weed).
- Managed a team of two project assistants.

Post-doctoral Research Associate | Imperial College London, 2014 - 2016

- Research addressing ecosystem service assessment of biorefineries.
- Developed novel approach for participatory design of bio-based supply chains.
- Led the organisation of one major engagement exercise with 45 experts and stakeholders.

Post-doctoral Research Associate | Lund University, 2012 - 2013

- Explored low-carbon transitions in district heating systems in China and Sweden.
- 3 months fieldwork in China, EU Marie Curie exchange programme, Tsinghua University.

- Obtained highest student satisfaction as lecturer for School of government summer school, Beijing University.
- Co-supervised one PhD project.



GRANTS

Research grant – Agroforestry potentials for sustainable cotton growing in Brazil for the fashion industry ([AGROcotton](#)) | Imperial College London, 2021-22

UK Green Recovery Challenge Fund Programme (FPNBS/100006), 305k GBP.

Research grant – Aquifer thermal energy storage for sustainable decarbonisation of heating and cooling ([ATESHAC](#)) | Imperial College London, 2021-24

UK Engineering and Physical Sciences Research Council (EP/V041878/1), 2 M GBP.

Research grant – Opportunities for Climate Mitigation and Sustainable Development ([OPTIMISM](#)) | Imperial College London, 2019-22

NERC, Formas (Sweden), Dep. of Biotechnology (India), JST (Japan) (NE/S012834/1), 700k GBP.

Research grant – Bioprocesses for the optimized, integrated production of butyl esters from sustainable resources (BESTER) | Imperial College London, 2019-21

BBSRC (BB/R021740/1) within EU ERACoBioTech programme, 2.8 M €.

Exchange and engagement grant | Imperial College London, 2015-16

San Paolo Research Foundation (FAPESP) and Imperial College, 12k GBP.

Fieldwork grant - Energy transition in Chinese district heating | Lund University, 2013

Royal Swedish Academy of Engineering Sciences, 55k SEK.



TEACHING AND LEARNING

- **Supervised** (11) MSc projects, University of London, 2017-present. Co-authored a research paper based on the results of an MSc project (under review in Business Strategy and the Environment).
- **Accreditation as Fellow of the Higher Education Academy** (HEA), in progress.
- **Supervised** (8) MSc projects, Imperial College, 2015-2018.
- **Lectured and co-coordinated** *Bioenergy Module*, MSc Sustainable Energy Futures, Imperial College, 2017.
- **Lectured and coordinated** master level course *Governance of energy transitions – towards low-carbon, sustainable society*, School of government summer school, Beijing University, 2012 and 2013.
- **Lectured** master level course *Environmental Issues - Thematic Course*, Lund University, 2008-2013.
- **Completed course** *Introduction to Teaching and Learning*, Lund University, 2010.



MAJOR HONOURS & DISTINCTIONS

- **Member of the review panel** “UK Future Leaders Fellowship programme”, 2020 - present.
- **Co-leader** of Energy and Climate research theme, Centre for Environmental Policy, Imperial College London.
- **Reviewer**, Energy Policy, Journal of Cleaner Production, Journal of Environmental Policy and Planning, Energy Research and Social Science, Global Change Biology-Bioenergy, Journal of Land Use Policy, Land Policy, Environmental Science and Policy, and others.

- **Presenter (invited):** Federal University Rio de Janeiro (2022), Brazilian Bioenergy Science & Technology Conference (2021), European Biomass Conference and Exhibition (2018), 6th International Conference Lignocellulosic Ethanol (2017).
- **Journal editor,** Sustainability (2019-20).



LANGUAGES

- **Italian:** mother tongue
- **English:** proficient user
- **Portuguese:** independent user
- **Swedish:** independent user
- **French:** beginner



LIST OF PUBLICATIONS

Journal papers - academic journals

1. *DI LUCIA, Slade and Khan (2021). Decision-making fitness of methods to understand SDG interactions, *Nature Sustainability*, <https://doi.org/10.1038/s41893-021-00819-y>
2. *DI LUCIA, Peterson, Seigné-Itoiz, Usai, Atzori, Slade (2021). Using participatory System Dynamics modelling to quantify Indirect Land Use Changes of biofuel projects, *Journal of Land Use Science*, 1-18, <https://doi.org/10.1080/1747423X.2020.1855265>
3. Anejionu, DI LUCIA and Woods (2020). Geospatial modelling of environmental and socioeconomic impacts of largescale production of advanced biofuel, *Biomass and Bioenergy*, 142, 105789, <https://doi.org/10.1016/j.biombioe.2020.105789>
4. *DI LUCIA, Seigné-Itoiz, Petterson, Bauen and Slade (2019). Project level assessment of Indirect Land Use Changes arising from biofuels production, *Global Change Biology – Bioenergy*, 10, 1361-1375, <https://doi.org/10.1111/gcbb.12638>
5. DI LUCIA and Ribeiro (2018), Enacting Responsibilities in Landscape Design: The Case of Advanced Biofuels, *Sustainability*, 10, 2071-1050, <https://doi.org/10.3390/su10114016>
6. *DI LUCIA, Usai and Woods (2018). Designing landscapes for sustainable outcomes – the case of advanced biofuels, *Land use policy*, 73, 434-446, <https://doi.org/10.1016/j.landusepol.2018.02.023>
7. Hodgson, Ruiz-Molina, Marazza, Pogrebnyakova, Burns, Higson, Rehberger, Hiete, Gyalai-Korpos, DI LUCIA and Noël (2016). Horizon scanning the European bio-based economy: a novel approach to the identification of barriers and key policy interventions from stakeholders in multiple sectors and regions. *Biofuels, Bioproducts and Biorefining*, 10(5), 508-522, <https://doi.org/10.1002/bbb.1665>
8. Zhang and DI LUCIA (2015). A transition perspective on alternatives to coal in Chinese district heating, *International Journal of Sustainable Energy Planning and Management*, 6, 49-68, <https://doi.org/10.5278/ijsepm.2015.6.5>
9. *DI LUCIA, and Ericsson (2014). Low-carbon district heating in Sweden - A successful energy transition, *Energy Research and Social Science*, 4, 10-20, <https://doi.org/10.1016/j.erss.2014.08.005>
10. Ahlgren and DI LUCIA (2014). Indirect land-use changes and the biofuel debate – a review of modeling results and policy developments in the EU, *Biotechnology for Biofuels*, 7, 35, <https://doi.org/10.1186/1754-6834-7-35>

11. DI LUCIA (2013). Too difficult to govern? An exploratory assessment of the governability of transport biofuels in the EU, *Energy Policy*, 63, 81-88, <https://doi.org/10.1016/j.enpol.2013.08.080>
12. Ahlgren, Rööf, DI LUCIA, Sundberg and Hansson (2012). EU sustainability criteria for biofuels: uncertainties in GHG emissions from cultivation, *Biofuels*, 3 (4), 399-411, <https://doi.org/10.4155/bfs.12.33>
13. *DI LUCIA, Ahlgren and Ericsson (2012). The dilemma of indirect land-use changes in EU biofuel policy - an empirical study of policy-making in the context of scientific uncertainty, *Environmental Science and Policy*, 16, 9-19, <https://doi.org/10.1016/j.envsci.2011.11.004>
14. DI LUCIA (2010). External governance and the EU policy for sustainable biofuels, the case of Mozambique, *Energy Policy*, 38, 7395-7403, <https://doi.org/10.1016/j.enpol.2010.08.015>
15. DI LUCIA and Kronsell (2010). The willing, the unwilling and the unable – Explaining the implementation of the EU Biofuels Directive, *Journal of European Public Policy*, 17 (4), 545-563, <https://doi.org/10.1080/13501761003673559>
16. DI LUCIA and Nilsson (2007). Transport biofuels in the European Union: The state of play, *Transport Policy*, 14, 533-543, <https://doi.org/10.1016/j.tranpol.2007.09.003>

Authored and edited books

17. Pradhan, van Vuuren, Wicke, Bogers, DI LUCIA, Hickmann, Kalfagianni, Leininger and Warchold (2022). Methods for Analyzing Steering Effects of Sustainable Development Goals, in 'The sustainable development goals as a transformative force? The 2022 SDG Impact Assessment', Biermann, Hickmann and Sénit (Eds.), *Cambridge University Press*.
18. Slade, DI LUCIA and Adams (2017). How policy makers learned to start worrying and fell out of love with bioenergy, in 'Sustainable greenhouse gas reductions from bioenergy systems', Thornley and Adams (Eds.), *Elsevier*.
19. DI LUCIA (2017). External governance and Europeanization beyond EU borders – an evaluation of the implications of EU biofuel policy in Mozambique, in 'A Guide to the EU Renewable Energy Policy', Solorio and Bechberger (Eds.), *Edward Elgar Publishing*.
20. DI LUCIA (2012). Public policy and the Governance of Biofuel Systems, doctoral thesis, Department of Environmental and Energy System Studies, Faculty of Engineering, *Lund University*.

Working papers and reports

21. DI LUCIA, Nilsson, Khan, Slade (2020). Knowledge of Sustainable Development Goal interactions for decision making—are current approaches fit for purpose?, Paper presented at the GlobalGoals2020 symposium (June 2020), <https://doi.org/10.31235/osf.io/seq8n>
22. LCAworks (2019). Feasibility Study of Clean Energy Generation and Supply from Coconut Shell Value Chains in Kenya. Technical report prepared for the AGRICEN project.
23. LCAworks (2018). DRYGRO energy crops project, Final report on economic opportunity for Kenya biofuel market, Deliverable 14 (Not public).
24. LCAworks (2017). DRYGRO Animal Feeds project, Final report for Kenya animal feed market, Deliverable 16 (Not public).
25. DI LUCIA (2016). Governing groundwater systems as governance – a framework for assessing governance needs and capacity, Working paper 4, in 'Groundwater governance drawing connections between science, knowledge and policy-making', Sindico and Manganelli (Eds.), *Strathclyde University*.