

## Francesca Larosa, PhD

**Postdoc research fellow** at Royal Institute of Technology (KTH)  
**Honorary Researcher** at Institute for Sustainable Resources,  
University College London (UCL)  
**Affiliated researcher** at Risk Assessment and Adaptation Strategies Division (RAAS),  
Euro-Mediterranean Center on Climate Change (CMCC)

### EDUCATION

- 2017-2022: Ph.D. Climate Change Sciences, Ca' Foscari University of Venice  
*Thesis Title:* "Complex networks in adaptation and mitigation to climate change". *Supervisors:* Prof. Carlo Carraro and Dr. Jaroslav Mysiak
- 2012-2015: M.Sc. Economic and Social Sciences, Bocconi University, Milan (Italy)
- 2009-2012: B.Sc. Economics, University of Pisa, Pisa (Italy)

### SELECTED WORK EXPERIENCES

- 2023 – *pres.* **Postdoc Research Fellow** at Royal Institute of Technology (KTH)  
- KTH Climate Action Centre  
- Artificial Intelligence (AI) for Climate Action
- 2021-2023: **Postdoc Research Fellow** (postdoc) at University College of London (UCL)  
- Computational Economics applied to sustainable and climate finance  
- Critical minerals for the energy transition
- 2017- 2023: **Researcher** at Euro-Mediterranean Center on Climate Change (CMCC), Venice  
- Risk Assessment and Adaptation Strategy (RAAS) Division  
- Climate services, climatech and climate innovation
- 2020: **Consultant** at ICF Strategic Consulting, working on the strategic plan of NASA Power Tool (National Aeronautics and Space Administration)  
**Scientific advisor** of the fintech startup MUGO (<https://mugoclimate.com/>)
- 2018-2019: **Co-founder** and Scientist at BalanceShift  
- Fintech startup specialized in providing climate risk assessments to companies by using Earth Observations (Eos) and Copernicus products  
- Winner of the ESA-BIS pitch competition in Noordwijk (The Netherlands)
- 2017: Short-term **consultant** at The Economist Intelligence Unit (EIU), London  
- Public Policy, Economics and Politics Division, Sustainable Food Systems Index
- 2015-2016: **Consultant** at International Center for Tropical Agriculture (CIAT), Nicaragua  
- Worked on adaptation to climate change through quantitative assessments of strategies of smallholder farmers in Central America
- 2016-2017: **Researcher** at Bocconi University, Milan  
- Centre for Research on Innovation, Organisation, Strategy and Entrepreneurship (I-CRIOS)  
- Laboratory for Effective Anti-Poverty Policies (LEAP)
- 2014-2015: **Consultant** at Food and Agriculture Organisation of the United Nations (FAO)  
- Economics and Statistics Division (ESS), based in Rome, Italy  
- Part of the Producer Prices Team supporting data collection, imputation and estimation for FAOSTAT available datasets

## IT AND LANGUAGE SKILLS

Database	BloomberNEF – <i>advanced</i> Access – <i>advanced</i> Orbis and Orbis BankFocus - <i>advanced</i>
Software	STATA – <i>advanced</i> R – <i>advanced</i> Python – <i>advanced</i> NVivo – <i>advanced</i>
Graphical	InDesign – <i>intermediate</i> ; Gephi – <i>advanced</i>
Languages	Italian (native), English (professional, C2), Spanish (professional, C2), Swedish (A2)

## PEER-REVIEWED PUBLICATIONS

**Larosa, F.**, Hoyas, S., García-Martínez, J., Conejero A.J., Fusco Nerini, F., Vinuesa, R. (2023) *Halting generative AI advancements may slow down progress in climate research*. Nature Climate Change. <https://doi.org/10.1038/s41558-023-01686-5>

Falkenberg M., Galeazzi A., Torricelli M., Di Marco N., **Larosa F.**, Sas M., Mekacher A., Pearce W., Zollo F., Quattrocioni W. Baronchelli A. (2022) *Growing polarisation around climate change on social media*. Nature Climate Change. <https://doi.org/10.1038/s41558-022-01527-x>

**Larosa, F.**; Rickman, J.; Ameli, N. (2022) *Finding the right partners? Examining inequalities in the global investment landscape of hydropower*. Global Environmental Change, 74, 102518. <https://doi.org/10.1016/j.gloenvcha.2022.102518>

Rickman, J., **Larosa, F.**, Ameli, N. (2022) *The internal dynamics of fast-growing wind finance markets*. Journal of Cleaner Production, 375, 134129. <https://doi.org/10.1016/j.jclepro.2022.134129>

Rickman, J.; Kothari, S.; **Larosa, F.**; Ameli, N. (2022) *The Unequal Distribution of International Climate Finance Flows and Its Underlying Drivers*. Research Square. <https://doi.org/10.21203/rs.3.rs-1188981/v1>

De Masi, F.; **Larosa, F.**; Porrini, D.; Mysiak, J. (2021) *Cultural heritage and disasters risk: a machine-human coupled analysis*. International Journal of Disaster Risk Reduction, 59, 102251. <https://doi.org/10.1016/j.ijdrr.2021.102251>

Essenfelder, A.H.; **Larosa, F.**; Mazzoli, P.; Bagli, S.; Broccoli, D.; Luzzi, V.; Mysiak, J.; Mercogliano, P.; dalla Valle, F. (2020) *Smart Climate Hydropower Tool: A Machine-Learning Seasonal Forecasting Climate Service to Support Cost Benefit Analysis of Reservoir Management*. Atmosphere, 11, 1305. <https://doi.org/10.3390/atmos11121305>

**Larosa, F.** and Mysiak, J. (2019). *Mapping the landscape of Climate Services*. Environmental Research Letters. 14, 9. <https://doi.org/10.1088/1748-9326/ab304d>

**Larosa F.** and Mysiak J. (2019). *Business models for climate services: an analysis*. Climate Services. 17, 10011. <https://doi.org/10.1016/j.cliser.2019.100111>

Ferrara M.; Mavilia R.; **Larosa F.**. (2017). *Inventive activity and Knowledge Flows in the Mediterranean Area: A Social Network Analysis based investigation approach*. African Journal of Science, Technology, Innovation and Development. <https://doi.org/10.1080/20421338.2017.1396651>

## WORKING PAPERS AND UNDER PEER-REVIEW

**Larosa, F.** *Measuring the research-action gap in innovation for climate change in Europe*. ArXiv CS. <https://doi.org/10.48550/arXiv.2303.17560>

Nijse, F., Mercure, J.F., Ameli, N., **Larosa, F.**, Kothari, S., Rickman, J., Vercoulen, P. and Pollitt, H. 2022. Is a solar future inevitable? University of Exeter, Working Paper series No. 2022/02. Available at [https://www.exeter.ac.uk/media/universityofexeter/globalsystemsintstitute/documents/GSI\\_working\\_papers\\_solar\\_August.pdf](https://www.exeter.ac.uk/media/universityofexeter/globalsystemsintstitute/documents/GSI_working_papers_solar_August.pdf)

Rickman, J., Kothari, S., **Larosa, F.** and Ameli, N., Investment Suitability and Path Dependency Perpetuate Inequity in International Mitigation Finance Towards Developing Countries. Available at SSRN: <https://ssrn.com/abstract=4198507> or <http://dx.doi.org/10.2139/ssrn.4198507>

**Larosa F.**, Ameli N., Rickman K., Kothari S. 2021. *Beyond standard economic approaches: complex networks in climate finance*. Working Paper Series Ca' Foscari University, Department of Economics. ISSN: 1827-3580. No. 19/WP/2021. Available at SSRN: <https://ssrn.com/abstract=3873739> or <http://dx.doi.org/10.2139/ssrn.3873739>

## POLICY DOCUMENTS

**Larosa F.**, Mysiak, J., Jeuken, A., Goosen, H., Prijden, R., van der Horst, S., Peña Cerezo, N., Lizundia Loiola, J., Fitton, J., Brotsma, R., Endendijk, T. (2023). *Opportunities and barriers report 2023*. Deliverable 4.1 REACHOUT – Shaping climate resilient cities. Accessible [here](#).

European Environmental Agency (EEA) Report. 2021. *Nature-based solutions in Europe: Policy, knowledge and practice for climate change adaptation and disaster risk reduction*. Chapter 5: Financing nature-based solutions. EEA Report Series No 1.

Cantone C. *et al. Recommendation and synthesis report*. 2020. Deliverable 5.4 CLARA - Climate forecast enabled knowledge services. Grant agreement 730482. Accessible [here](#).

**Larosa F.**; *Opportunities and barriers report*. 2018. Deliverable 5.1 CLARA – Climate forecast enabled knowledge services. Grant agreement 730482. Accessible [here](#).

Hamaker-Taylor R., Perrels A., Canevari L., Nurmi V., Rautio T., Rycerz A. and **Larosa F.**. 2018. *Results of explorations of the climate services market for the financial sector*.; Deliverable 2.1 EU-MACS - European Market for Climate Services. Grant agreement 730500. Accessible [here](#).

**Larosa F.** and Perrels A.; 2017. *Assessment of the existing resourcing and quality assurance of current climate services*. Deliverable 1.2 EU-MACS - European Market for Climate Services. Grant agreement 730500. Accessible [here](#).

Reyes B; Vásquez M; **Larosa F.**; Gómez L; Espinal M; Wiegel J; van Loosen I; Jäger M; Rodríguez I; Lundy M.. 2016. *Traditional markets for poverty reduction and food security: Exploring policy options in Honduras and Nicaragua*. CIAT Policy Brief No. 29. Centro Internacional de Agricultura Tropical (CIAT), Cali, Colombia. 6 p. Accessible [here](#).

## AWARDS AND GRANTS

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| 2022: | Winner of the 50 Rising Stars in ESG Award by Women of the Future Programme  |
| 2021: | Winner of the Young Scientist Conference Award at the European Meteorological Society (EMS) Annual Meeting. Remote<br>Appointed EU ClimatePact Ambassador for Italy  |
| 2019: | Winner of the Best student Oral Communication at the European Conference on Climate Change Adaptation (ECCA 2019). Lisbon, Portugal  |
| 2018: | Winner of the Complex Systems Society Scholarship to participate to the Mediterranean School of Complex Networks. Salina, Italy.<br>Winner of the Copernicus Accelerator Program with BalanceShift.<br>Winner of the Astropreneurs Accelerator Program with BalanceShift<br>Winner of the Best Startup Idea at the ISU ESA event in Noordwijk (The Netherlands) in July 2018 with BalanceShift |
| 2017: | Winner of the 4-year scholarship granted by the Italian Ministry of Education for the PhD Climate Change Sciences at Ca' Foscari University  |

## COMMUNICATION AND DISSEMINATION

- 2023 Speaker at *Science for a Sustainable Future webinar series* organized by Springer Nature and Sustainable Development Solutions Network (SDSN). Recording [here](#)
- 2022 TedTalk speaker at TEDxLerici (video [here](#))
- 2018 Live-streamed conversation with the Vice-President of the European Union for Energy Union and Space Strategy on Space Technologies and Climate Change. The talk was streamed on the main social accounts of the European Commission and followed by approximately 15000 viewers. Video [here](#).

Last update - July 2023