# PERSONAL INFORMATION

Family name, First name: Fuso Nerini, Francesco Researcher unique identifier: https://orcid.org/0000-0002-4770-4051 Nationality: Italian & Swedish



## **EDUCATION**

2020	Docent degree in Energy and Environment Systems (Habilitation)
	Division of Energy Systems, Royal Institute of Technology, <b>Sweden</b>
2016	PhD in Energy and Environment Systems Analysis, division of Energy Systems
	Royal Institute of Technology, Sweden (Supervisor: Prof. Mark Howells)
2012	Double Master of Science (M.Sc) degree in Sustainable Energy Engineering
	Royal Institute of Technology, Sweden & Universitat Politecnica de Catalunya, Spain
2008, 2010	Master of Science (B.Sc + M.Sc) in Environmental and Land Planning Engineering

Politecnico di Milano, **Italy** 

#### **CURRENT POSITIONS**

2021-	Director of the KTH Climate Action Centre, Royal Institute of Technology, Sweden
2017 -	Associate Professor in Energy Systems for Sustainable Development (Assist. till 2019)
	Division of Energy Systems, Royal Institute of Technology, <b>Sweden</b>
2021 -	Affiliated Scientist, European Institute on Economics and the Environment, CMCC, Italy
2017 -	Research Affiliate, Payne Institute for Public Policy, Colorado School of Mines, US
2016 -	Affiliated member, University College London (UCL), Energy and Development Group, UK

#### **PREVIOUS POSITIONS**

2018 - 2018	Guest researcher, International Centre for Theoretical Physics (ICTP). Trieste, Italy
2016 - 2017	Energy Analyst, World Energy Outlook (WEO), International Energy Agency, France
2015 - 2017	Post-doctoral research associate, Energy Institute, University College London(UCL), UK
2012 - 2015	PhD candidate, energy access lead, Energy Systems, Royal Institute of Technology, Sweden
2013 - 2013	Guest researcher, Melbourne Energy Institute, Melbourne University (MEI), Australia
2012 - 2012	Guest researcher, Universidade Federal do Pará (UFPA), Brazil
2010 - 2010	Trainee, Italian National Agency for New Technologies, Energy and the Environment, Italy

#### SELECTED FELLOWSHIPS AND AWARDS

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2021 - 2022	Digital Futures, grants for collaborative research projects on AI and Climate (800k Eur)
2018 - 2021	Formas Swedish Research Agency, grant for excellent researchers (300k Eur)
2021 - 2022	Clean Cooking Alliance, awarded research on cooking energy access (100k Eur)
2017 - 2021	UN-FAO, awarded research on the Nexus in NENA region (500k Eur)
2020 - 2021	UNECE, awarded research on transboundary nexus (100k Eur)
2020 - 2022	World Bank, awarded research on energy access in Somalia, Somaliland, Benin (600k Eur)
2020 - 2021	KTH sustainability office, various grants for sustainability at KTH (70k Eur)
2019	International Energy Agency, awarded research for World Energy Outlook (30k Eur)
2018	Swedish Energy Agency, awarded support grant for H2020 calls
2012 - 2015	Åf, Sweco Foundation, KTH, awarded various scholarships for PhD studies (40k Eur)
2012	Hult Global Case Challenge, Runner-up, among 5000+ teams, adoption of Solar in SSA
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#### **SELCTED TEACHING ACTIVITIES**

2019 –	MSc Programme Director: Innovative Sustainable Energy Engineering MSc programme
	Nordic5tech international Master

- 2020 **KTH, coordinator PhD course**: Sustainability Perspectives for Assessing and Designing Research, Projects and Policies, 6 ECTS
- 2017 KTH, coordinator MSc/PhD course: Energy Data, Balances and Projections, 6 ECTS
- 2018 KTH, Course coordinator BSc course: Energy Systems, 1.5 ECTS
- 2014 **Capacity building,** e.g. for ministerial audiences in Jordan, Morocco, Bolivia and Ethiopia, at the UK parliamentary office and for other UN & WB workshops
- 2019 KTH, Course coordinator MSc course MJ2413: Energy and Environment, 6 ECTS
- 2012 2015: Teacher in course modules in several energy and sustainability courses at KTH & UCL

# **ORGANISATION OF SCIENTIFIC MEETINGS**

2018 - 2022	Invited guest lecturer on sustainability topics at various universities, including Oxford
	University, Cambridge University, Boston University, Uppsala University and others
2020	Co-organizer for a KTH-MIT workshop on the future of AI
2018, 2019	Organizer and moderator for the Swedish launch of the IEA World Energy Outlook
2018-	Organizer of 4 workshops on the Nexus for UN-FAO in Jordan and Morocco
2018	Co-organization, UN-WB Summer School on Modelling Tools for Sustainable Dev.
2019	Co-organization for workshop on how to decarbonize cities at the European Commission
2019	Keynote on nexus research at the CGIR Science Forum in Cape Town, South Africa
2016	Organizer of energy modelling workshop at UCL with 50 participants from several teams

### INSTITUTIONAL RESPONSIBILITIES & SCIENTIFIC SOCIETIES

- 2021 Director of the KTH Climate Action Centre, encompassing 60+ researchers at KTH
- 2021 Board member, KTH Global Development Hub
- 2019 Board member, KTH-Stockholm Environmental Institute Strategic Partnership
- 2021 2022 **Opponent for PhD dissertations** of two student at Politecnico di Milano
- 2018 Internal reviewer and opponent for 3 PhD dissertation at KTH
- 2017 Affiliated to Payne Institute, US; CMCC, Italy & UCL Energy and Development group, UK

### MAJOR COLLABORATIONS

Due to my multidisciplinary research work and projects, I have an extended international network of collaborators. For instance, in recent published research I led, I had co-authors from Oxford University, MIT, Duke, UNOPS, UCL, UBC, Sussex University, the IEA, PoliMI, UNSW, and others. My work has been funded not only by research agencies, but in applied collaborative work with international institutions such as the World Bank, various UN offices, the IEA and the Clean Cooking Alliance.

#### Publications

I have led many high profile publications including in top-journals (e.g. Nature, Nature Energy), and policy reports, such as contributions to IEA and World Bank reports. A shortlist of relevant publications is reported below:

- 1. Khavari, B.; Gomez, C.; Jeuland, M.; Fuso Nerini, F. The Benefits and Costs of Adopting Clean Cooking in Sub-Saharan Africa. *Accepted in Nature Sustainability* **2022**.
- Nerini, F.F.; Broad, O.; Mentis, D.; Welsch, M.; Bazilian, M.; Howells, M. A Cost Comparison of Technology Approaches for Improving Access to Electricity Services. *Energy* 2016, doi:10.1016/j.energy.2015.11.068.
- 3. Nerini, F.F.; Andreoni, A.; Bauner, D.; Howells, M. Powering Production. The Case of the Sisal Fibre Production in the Tanga Region, Tanzania. *Energy Policy* **2016**, doi:10.1016/j.enpol.2016.09.029.
- 4. Castor, J.; Bacha, K.; Fuso Nerini, F. SDGs in Action: A Novel Framework for Assessing Energy Projects against the Sustainable Development Goals. *Energy Res Soc Sci* **2020**, *68*, 101556, doi:10.1016/j.erss.2020.101556.
- 5. Fuso Nerini, F.; Tomei, J.; To, L.S.; Bisaga, I.; Parikh, P.; Black, M.; Borrion, A.; Spataru, C.; Castán Broto, V.; Anandarajah, G.; et al. Mapping Synergies and Trade-Offs between Energy and the Sustainable Development Goals. *Nature Energy* **2018**, *3*, 10–15, doi:10.1038/s41560-017-0036-5.
- 6. Fuso Nerini, F.; Sovacool, B.; Hughes, N.; Cozzi, L.; Cosgrave, E.; Howells, M.; Tavoni, M.; Tomei, J.; Zerriffi, H.; Milligan, B. Connecting Climate Action with Other Sustainable Development Goals. *Nature Sustain* **2019**, *2*, 1, doi:10.1038/s41893-019-0334-y.
- 7. Dobbins, A.; Fuso Nerini, F.; Deane, P.; Pye, S. Strengthening the EU Response to Energy Poverty. *Nature Energy* **2019**, *4*, 2–5, doi:10.1038/s41560-018-0316-8.
- Fuso Nerini, F.; Dargaville, R.; Howells, M.; Bazilian, M. Estimating the Cost of Energy Access: The Case of the Village of Suro Craic in Timor Leste. *Energy* 2015, 79, 385–397, doi:10.1016/j.energy.2014.11.025.
- 9. Nerini, F.F.; Ray, C.; Boulkaid, Y. The Cost of Cooking a Meal. the Case of Nyeri County, Kenya. *Environmental Research Letters* **2017**, *12*, doi:10.1088/1748-9326/aa6fd0.
- Leite de Almeida, C.M.; Bergqvist, E.; Thacker, S.; Fuso Nerini, F. Actions to Align Energy Projects With the Sustainable Development Goals. *Discover Sustainability* 2021, 2, 16, doi:10.1007/s43621-021-00020-3.
- Vinuesa, R.; Azizpour, H.; Leite, I.; Balaam, M.; Dignum, V.; Domisch, S.; Felländer, A.; Langhans, S.; Tegmark, M.; Nerini, F.F. The Role of Artificial Intelligence in Achieving the Sustainable Development Goals. *Nature Commun* 2020, *11*, 1–10, doi:10.1038/s41467-019-14108-y.

*Full list at: https://scholar.google.se/citations?user=Bblxl3AAAAAJ&hl=en* 

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