

Vivien FISCH-ROMITO

Researcher in climate change and energy economics

Contributing author of the IPCC Sixth Assessment Report (AR6 WGIII), chapter 2 on emission trends and drivers

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Google scholar: <https://scholar.google.fr/citations?user=pfFQYhcAAAAJ&hl=fr&oi=ao>

WORK EXPERIENCE

Since 03/2023	Junior Lecturer , <i>Lausanne Ecological Economics Lab, Institute of Geography and Sustainability, University of Lausanne</i>
11/2021-02/2023	Postdoctoral Researcher , <i>Renewable Energy Systems group, University of Geneva</i>
01/2021-10/2021	Parental leave
06/2016-12/2020	Researcher , <i>Centre International de Recherche sur l'Environnement et le Développement (CIRED), Paris</i>
04/2014-07/2014	Research Assistant , <i>Green Roof Centre, University of Sheffield</i>
07/2013-10/2013	Water Engineer , <i>Région Haute Matsiatra, Fianarantsoa, Madagascar</i>

EDUCATION

2017-2021	PhD in Climate Change Economics , <i>Ecole des Ponts Paris-Tech</i> . - Title: Bridging human needs and carbon dioxide emissions reduction: the infrastructure dynamics at the core of the climate-development interplay - Methods: Economics, Process-based IAMs, Quantitative analysis of climate policies and scenarios, Robust decision making, Global Sensitivity Analysis, Input-Output and material flows analysis, systematic reviewing - Supervisor: Céline Guivarch (CIRED); Jury: J. Steinberger (University of Lausanne), E.Trutnevyte (University of Geneva). , G. Meunier (INRAE), H.Waisman (IDDRI)
2015-2016	Msc Economics of Environment, Energy and Transport , <i>Université Paris Saclay</i> Micro- and Macroeconomics, Econometrics, Natural resource economics, Environmental and climate policies, Economic growth and climate change, Computable general equilibrium model. Specialization in prospective modelling and scenarios.
2008-2014	Urban engineering degree , <i>INSA Lyon</i> Civil engineering, Town planning, Transportation, Building thermal, Urban hydraulic, Energy.

PUBLICATIONS

Millward-Hopkins, Joel, and **Fisch-Romito, Vivien**. 2025. We have to talk about overconsumption (in three different ways). *Environmental Research Letters* 20 (3). doi:10.1088/1748-9326/adb986.

Fisch-Romito, Vivien., Jaxa-Rozen, M., Wen, X. & Trutnevyte, E. 2025. Multi-country evidence on societal factors to include in energy transition modelling. *Nature Energy* 1–10. doi:10.1038/s41560-025-01719-7.

Fisch-Romito, Vivien 2021. Embodied CO2 emissions for universal access to basic infrastructures. *Global Environmental Change* 70. doi: 10.1016/j.gloenvcha.2021.102362

Fisch-Romito, Vivien, Guivarch, C., Creutzig F., Minx J. and Callaghan M.W. 2021. Systematic map of the literature on carbon lock-in induced by long-lived capital. *Environmental Research Letters* 16 (5). doi:

Fisch-Romito, Vivien, and Céline Guivarch. 2019. Transportation Infrastructures in a Low Carbon World: An Evaluation of Investment Needs and Their Determinants. *Transportation Research Part D: Transport and Environment* 72. doi: 10.1016/j.trd.2019.04.014

WORKING PAPERS

Fisch-Romito, Vivien, and Julia Steinberger. Work-life (im)balance: an assessment of housing and commuting energy use inequalities in Switzerland. *Under review*.

Millward-Hopkins, Joel., **Fisch-Romito, V.**, Nick, S., Wellbeing, inequality, and affluence: energy consumption corridors for Switzerland, *Under review*.

Arnz Marlin, Soomauroo, Z., **Fisch-Romito, V.**, Min, J., Millward-Hopkins, J., Kishimoto, P.N., Zimm, C., Boza-Kiss, B., Van Ruijen, B., Quantifying minimum mobility needs: the Who, the Where and the Why. *Under review*.

Tamberg, Lea, Steinberger J., Cologna, V., **Fisch-Romito, V.**, Millward-Hopkins, J., Calvo, F., Oreskes, N., Human need satisfaction enables decoupling of well-being from income. <https://doi.org/10.21203/rs.3.rs-5355955/v1>. *Under review*.

Wen Xin, **Fisch-Romito, V.**, Trutnevyte, E., How feasible are modeled electricity system transition pathways to achieve zero CO2 emission target considering societal factors? A simulation-based modeling case study in 31 European countries

Nemet, Gregory, Wilson, Charlie, Bento, N., De Stercke, S., Zimm, C., van Valkengoed, A., Solis, A., Zhang, J., Johnson-Wang, M., Wu, D., Gruebler, A., Iwata, H., Sugiyama, M., Boza-Kiss, B., Niamir, L., Wiese, F., Carew, G., **Fisch-Romito, V.**, Large dispersion in the diffusion of social Innovations

PROJECTS

Since 2024	<i>Post-growth deal (REAL)</i> , funded by the European Research Council
2024	<i>Lifestyles and Carbon Emissions in the Arc Lemanique territory (LOCAL)</i> , funded by the Collaborative Research on Science and Society program
2023-2025	<i>SWEET SWICE</i> , funded by the Swiss Federal Office of Energy
2021-2024	<i>Accuracy of long-range national energy projections</i> , funded by the Swiss National Science Foundation
2016-2019	<i>Beyond the Gap: How Countries Can Afford the Infrastructure They Need while Protecting the Planet</i> , funded by the World Bank

GRANTS

Lifestyles and Carbon Emissions in the Arc Lemanique territory (LOCAL), funded by the Collaborative Research on Science and Society program. Main co-writer. 60 kCHF

ORAL PRESENTATIONS

2025	Energy, sufficiency and wellbeing workshop, <i>Geneva</i> ; Réseau Transport Electricité (RTE) research department (invited speaker), <i>online</i>
2024	SWICE annual conference, <i>Winterthur</i> ; Energy Demand changes Induced by Technological and Social innovations (EDITS) Conference, <i>Vienna</i> ;
2023	SWICE annual conference, <i>Lucerne</i> ; Energy Demand changes Induced by Technological and Social innovations (EDITS) Conference, <i>Lisbon</i> ;
2022	Scenarios Forum, <i>Vienna</i> ; Integrated Assessment Modelling Consortium Meeting, <i>Washington</i> ;
2019	Scenarios Forum, <i>Denver</i> ; International Energy Workshop (<i>IEW</i>), <i>Paris</i> ; ISIE-Socio Economic Metabolism Section Conference (<i>ISIE-SEM</i>), <i>Berlin</i>

TEACHING

Climate mitigation scenarios and models, *Bachelor of Geography and Sustainability, University of Lausanne*, 2024-2025

Electricity production technologies, *Terrascope, University of Geneva*, 2022-2023

Integrated assessment models and scenarios, *Msc Economics of Environment, Energy and Transport, University Paris Saclay*, 2018-2020

OUTREACH

Medias:

Climat, la fin du doute et le temps de l'action, *24heures*, with Augustin Fragnière, Tom Beucler, Daniela Domeisen, Antoine Guisan, Samuel Jaccard, Georgina King, Sascha Nick, Grégoire Mariéthoz, Nadav Peleg, Marie-Elodie Perga, Nicolas Senn, Julia Steinberger, Philippe Thalmann, available at <https://climact.ch/fr/post/climat-la-fin-du-doute-et-le-temps-de-l-action>

Les énergies renouvelables, *20minutes*, available at <https://www.20min.ch/fr/video/renouvelable-a-ce-rythme-on-ny-arrivera-pas-mais-on-est-sur-la-bonne-voie-261392882931>

Approvisionnement énergétique en Suisse: et maintenant ?, *20minutes*, available at <https://www.20min.ch/fr/story/loi-climat-approvisionnement-energetique-en-suisse-et-maintenant-126251905884>

Other:

Organization of an outreach event for the popular education association *les Petits Débrouillards*, 2017;

Guide at the Exhibition *Train du Climat*, 2017-2018, <https://trainduclimat.fr/>;

Creation of two boardgames for the *Nuit de la Science in Geneva*, 2022

SUPERVISION AND COMMITTEE

Co-supervision of PhD candidate: Lea Tamberg, Socio-economic and biophysical prerequisites for human wellbeing, *University of Lausanne*, 2024-...

PhD thesis committee: Thibault Briera, Removing barriers to low-carbon investments: quantitative explorations using Integrated Assessment Models, *CIREN*, 2021-2024

MSc thesis committee: Robin Vital, Historical analysis of French electricity sector transition and implications for modeling, *University of Geneva*, 2022

COLLECTIVE TASKS

Coordinating of the construction of the integrated assessment model, *ERC REAL project*, Since 2024

Elected representative of doctoral and post-doctoral employees at the institute council, *Institute of Geography and Sustainability*, since 2023

Elected representative of doctoral employees at the institute council, *CIREN*, 2019-2020

REVIEWING

Climate Policy, *Environmental Research Letters*, Sustainable Production and Consumption, Urban Climate

MISCELLANEOUS

Languages

French (native language), English (fluent), Spanish (B1)

Computer

R, Python, Microsoft Office

Personal skills

Interface role between various stakeholders, Working in multicultural context

EXTRACURRICULAR ACTIVITIES

Head of the Departmental
Pedagogical Unit and instructor in a
popular education association, *Scouts
et Guides de France* (2015-2021)

Coordination of educational projects
Management of a 10 people team
Trainer for youth leader certificate
Organisation of training/reflection sessions
Animation of a volunteers network

President of a parental crèche
association, *Bambino* (2019-2020)

Coordination of the various committees
Interface role between employees and volunteers
Management of a 30 people team
Animation of a volunteers network

REFERENCES

Julia Steinberger

Professor, Institute of Geography and Sustainability, University of
Lausanne
Email : julia.steinberger@unil.ch

Céline Guivarch

Professor, Ecole des PontsParistech, CIRED
Email : celine.guivarch@enpc.fr

Marc Jaxa-Rozen

Senior researcher, European Commission, Joint Research Centre
Email: marc.jaxa-rozen@ec.europa.eu