

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

Email: vivien.fisch-romito@unil.ch

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> <ul style="list-style-type: none">• Team coordination to build a global multi-sectoral model for post-growth scenarios |
| 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>CIRED, Ecole des Ponts Paris-Tech.</i> <ul style="list-style-type: none">• 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, 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

Arnz Marlin, Soomauroo, Z., **Fisch-Romito, V.**, Min, J., Millward-Hopkins, J, Kishimoto, P.N., Zimm, C., Boza-Kiss, B., Van Ruijen, B. 2025. Quantifying minimum mobility needs: the Who, the Where and the Why. *Energy Research & Social Science* 128. doi:10.1016/j.erss.2025.104306

Millward-Hopkins, Joel., **Fisch-Romito, V.**, Nick, S. Chevrel, E. 2025. Energy requirements for securing wellbeing in Switzerland and the space for affluence and inequality. *Nature Communications* 16, 4066. doi: 10.1038/s41467-025-59276-2

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: 10.1088/1748-9326/aba660

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*.

Nemet, Gregory, Wilson, Charlie, Bento, N., De Stercke, S., Zimm, C., van Valkengoed, A., Solis, A., Zhang, J., Johson-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, *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*.

Slameršak, A. **Fisch-Romito, V.**, Hickel, J., Kikstra, J., Millward-Hopkins, J., Oswald, Y., Steinberger, J., Principles for a Post-growth Scenario of Ambitious Climate Mitigation and High Human Well-being, *Under review*

Veléz-Henao, Johan Andrés, Streeck, J.², Millward-Hopkins, J., Rao D.N., Arnz, M., **Fisch-Romito, V.**, Kaveri, A., Kikstra, J. S. , Future Energy and Material Scenarios based on Decent Living Standards, *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

Oswald Yannick, **Fisch-Romito, V.**, Degrowth and postgrowth scenarios require political dynamics grounded in empirical evidence, Oswald Y, Fisch-Romito, V.

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 OBTAINED

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

Quantifying Decent Mobility, Energy Demand changes Induced by Technological and Social innovations (EDITS) network, funded by the Ministry of Economy, Trade, and Industry (METI), Japan. Co-writer of the proposal, 25 kCHF

ORAL PRESENTATIONS

2025	Energy, sufficiency and wellbeing workshop (invited speaker), <i>Geneva</i> ; Réseau Transport Electricité (RTE) research department (invited speaker), <i>online</i> ; Scenarios Forum, <i>Leeds</i> ; Swiss Social Sciences & Humanities Energy Conference, <i>Zurich</i> ; RIFS conference (<i>invited speaker</i>), <i>Berlin</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>
2017	Third International Workshop: The Energy Transition in Land Transportation, <i>Paris</i> ; Green Growth Knowledge Platform (GGKP) Annual Conference, <i>Washington</i> ; International Summer School "Modelling Approaches to assess NDCs and mid-century strategies", <i>Paris</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 energy transition 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

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, Environmental Innovation and Societal Transitions

MISCELLANEOUS

Languages	French (native language), English (fluent), Spanish (B1)
Computer	R, Python, Microsoft Office, LaTeX
Personal skills	Interface role between various stakeholders, Working in multicultural context

EXTRACURRICULAR ACTIVITIES

Lead of music band (Since 2024)	Coordination for music production and recordings Fund acquisition and communication Long term planning for concerts
Head of the Departmental Pedagogical Unit and instructor in a popular education association, <i>Scouts et Guides de France</i> (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, <i>Bambino</i> (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, CIREN Email : celine.guivarch@enpc.fr
Marc Jaxa-Rozen	Senior researcher, European Commission, Joint Research Centre Email: marc.jaxa-rozen@ec.europa.eu