

Felix Samy Soliman

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Education

2020–	PhD in Economics, University of Zurich
2024	Visiting PhD Student, Stanford University (8 months)
2017–2019	Master of Philosophy in Economics, University of Oxford
2014–2017	Bachelor of Science in Economics, LMU Munich
2015–2017	Bachelor of Arts in Philosophy, LMU Munich

References

David Hémous
University of Zurich
david.hemous@econ.uzh.ch

Alessandro Ferrari
Universitat Pompeu Fabra
alessandro.ferrari@upf.edu

Juan Carlos Suárez Serrato
Stanford Graduate School of
Business
jc@jcsuarez.com

Job Market Paper

2025 **Capital Replacement and the Demand for Clean Technology** ([Link](#))

I study why clean technologies are adopted slowly and how slow adoption undermines clean innovation. Using an event-study around large energy price swings, I provide evidence that industries with short-lived assets see greater increases in energy efficiency and green patenting, consistent with lock-in among users of long-lived assets and weaker demand for clean technologies. To assess policy implications, I embed the feedback between lumpy capital replacement and energy saving technical change in a multisector integrated assessment model. I calibrate the model to the reduced-form findings to quantify emissions reductions from optimal carbon taxes and the benefits of replacement subsidies that stimulate adoption of new vintages. Slow adoption delays the pass-through of clean innovation to energy demand relative to benchmark models. If the social cost of carbon rises with cumulative emissions, these dynamics justify higher carbon taxes. Replacement subsidies can partially substitute for carbon taxes. Uniform subsidies improve fuel efficiency but raise emissions via scale effects. Redirecting these subsidies to electrification is a more effective second-best when the electricity mix is sufficiently clean.

Working Papers

2025 **Slack and Economic Development** ([Link](#))
with Michael W. Walker, Nachiket Shah, Edward Miguel, Dennis Egger and Tilman Graff
Reject & Resubmit Journal of Political Economy

2025 **The Geographic Leakages of Environmental Regulations: Evidence from the Clean Air Act** ([Link](#))
with Mark Curtis, Weiting Miao, Juan Carlos Suarez Serrato and Daniel Xu

Publications

- 2018 **Democratization, Contracts and Comparative Advantage**
with Jan Schymik
Economics Letters, vol. 173, pp. 73–77

Presentations

- 2025 STEG Annual Conference (Oxford); Swiss Macro Workshop (Sils Maria); NBER International Trade and Investment Spring Meeting (Boston)
- 2024 LSE Environment Week (PhD Students); NBER Summer Institute (Macroeconomics & Productivity); LSE Environment Week (General); IIPF Annual Congress (Prague); Swiss Workshop on Environmental, Resource and Energy Economics (Lausanne); ifo Institute (Munich)

Refereeing

- Journals *Journal of Environmental Economics and Management*, *Labour Economics*,
Review of Economics and Statistics

Relevant Experience

- 2023–2024 PhD Macro Math Camp (Instructor)
- 2023 Advanced Microeconomics (Master – Teaching Assistant)
- 2022–2024 Environmental Economics (Bachelor – Teaching Assistant)
- 2020–2021 Research Assistant to Professor Petr Sedlacek (University of Oxford)
- 2019–2020 Trainee at European Central Bank–DG Monetary Policy
- 2016–2017 Research Assistant to Professor Christoph Trebesch (LMU)
- 2015–2016 Research Assistant to Professor Johannes Abeler (University of Oxford)
- 2015 Tutorial in Mathematical Methods for Economists

Grants and Scholarships

- 2024 Doc.Mobility Scholarship to visit Stanford University (45,000 CHF)
- 2023 CEPR–STEG Ph.D. Research Grant (£15,000, PI)
- 2017–2019 Funding for Graduate Studies from German Academic Exchange Service
- 2016 Award for Excellent Student Research from LMU
- 2016–2019 German National Academic Merit Foundation
- 2015–2016 Deutschlandstipendium
- 2015–2017 Honors Programme for Top 6 students in cohort, Faculty of Economics, LMU