Rachel PAYA

Nationality: French rachel.paya@essec.edu

EDUCATION

ESSEC Business School 3 Av. Bernard Hirsch 95000 Cergy, France

ESSEC Business School 2022 - 2027 (expected) Ph.D. Candidate in Finance Supervisors: Laurent Bach and José-Miguel Gaspar Research Interests: Corporate Finance, Public Finance, Energy Transition

Paris School of Economics M.Res. in Analysis and Policy in Economics Master thesis: "Sustainable Welfare? Socio-Environmental Evaluation of the French Energy Voucher" Thesis supervisors: Lucas Chancel & Paul Dutronc-Postel

King's College London

B.Sc. in Philosophy, Politics, and Economics

EXPERIENCE

Research Economist, Institut des Politiques Publiques (Paris, France)	Nov. 2021-ongoing
Research Assistant , World Inequality Lab (Paris, France)	Feb. 2021-Oct. 2021
Research Analyst, I4CE-Institute for Climate Economics (Paris, France)	Mar. 2020-Oct. 2020
Junior Economist, Société Générale (Paris Area, France)	Sept. 2019-Feb. 2020

WORKING PAPERS

Do Subsidies to Green Technical Change Reduce Carbon Emissions? Evidence from French Manufacturing Firms (with L. Bach, P. Dutronc-Postel, and A. Guillouzouic)

We study a one-billion-euro investment subsidy program aimed at fostering biomass-based energy adoption in manufacturing. Leveraging rich data on eleven cohorts of subsidized projects, we show that subsidies cause clean investment to increase, fossil fuel consumption to decrease and biomass consumption to increase. Yearly plant-level CO_2 emissions decrease by 31 %, while activity remains unchanged. Because some beneficiaries are part of the EUETS, aggregate gains from the program are lower; overall, an abated ton of CO_2 costs between 22 and 66 euros. Many selected projects are eventually abandoned, which can partly be explained by energy price shocks.

WORK IN PROGRESS

Tax incentives and Corporate Carbon Emissions Decarbonizing Corporate Real Estate (with O. Denagiscarde)

2018 - 2021

2015 - 2018

SEMINARS, CONFERENCES AND SUMMER SCHOOLS

2024: GRASFI PhD Workshop (EDHEC), Student Research Seminar (ESSEC), European Sustainable Finance PhD Workshop (University of Augsburg)
2023: Brown Bag Seminar (ESSEC)
2019: PSE Summer School on Climate Change Economics

POLICY WORKS

Astier, N., Bach, L., Dutronc-Postel, P., Guillouzouic, A., Ollivier, H. and Paya, R. (2024) "Évaluation des aides à la décarbonation du plan France Relance" IPP Report n°50, January 2024.

Bach, L., Dutronc-Postel, P., Guillouzouic, Malgouyres, C. and Paya, R. (2024) "Les émissions de CO2 de l'industrie française et le "ciblage carbone" des politiques publiques" IPP Policy Brief n°102, January 2024.

Hubert, R., Paya, R., Hilke, A., and Cardona, M. (2022) "Scenario Analysis of Transition Risk in Finance - Towards Strategic Integration of Deep Uncertainty" I4CE Climate Report, June 2022.

TEACHING

Public Policy Analysis and Evaluation (TA to Etienne Fize), Sciences Po 2023, 2024

SKILLS

Programming Languages and SoftwaresR, Stata, LaTeX, Microsoft OfficeLanguagesFrench (native), English (fluent), Spanish (basics)