Jimmy Karlsson

Curriculum Vitae (Oct 2025)

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Research Interests

Environmental Economics, Labor Economics

Academic Positions

2025 – **The Research Institute of Industrial Economics (IFN)**
Postdoctoral Researcher

Education

2020 – 2025 **Ph.D. in Economics**, Department of Economics,
University of Gothenburg
Supervisors: Prof. Jessica Coria and Prof. Mikael Lindahl
Dissertation Title: *The Economic Impacts of Carbon Taxation and Climate Change*

2024 Research Visit: EnergyEcoLab, UC3 Madrid (Spring)

2017 – 2019 **M.Sc. in Economics**, Department of Economics,
University of Gothenburg
Thesis: *Temperature & Exports - Evidence from the United States*

2018 Exchange Semester, Solvay Brussels School of Economics & Management,
Université Libre de Bruxelles (Spring)

2014 – 2017 **B.Sc. in Economics**, Department of Economics, University of Gothenburg

Work in Progress

Carbon Taxation, Firm Performance, and Labor Demand [JOB MARKET PAPER]

This paper investigates the environmental and economic effects of carbon taxation, including the impacts on labor demand for different workers. Using matched employer-employee data from the Swedish registers from 2004 to 2018, I estimate the effects of a reform that

increased the stringency of the tax for a subset of firms in the manufacturing sector. In a Difference-in-Differences framework, I find that the reform significantly reduced emissions, primarily through a switch to biofuels. However, it also reduced revenue and employment among emission-intensive firms. The negative employment effects are more pronounced for low-educated workers, suggesting a skill-biased effect of carbon taxation, although high-educated workers are also negatively affected at the most exposed firms. On average, the result corresponds to semi-elasticities of -0.58% per euro tax increase for emissions, and -0.20% for low-educated employment. The paper concludes with a discussion on the implications for the green transition and labor market inequality.

Carbon Taxation and Local Labor Markets

This project studies the effects of a carbon tax reform on local labor markets in Sweden. I exploit spatial variation in exposure to the reform which removed manufacturing rebates to the carbon tax from 2011 to 2018, based on the geographical distribution of affected firms. Using matched employer-employee population data, I develop a Difference-in-Differences framework which indirectly controls for confounders using the Generalized Propensity Score for continuous treatments. I find no significant effects on local employment rates or labor force participation. The heterogeneity analysis reveals similar zero-to-moderate employment effects regardless of education level. The result indicates low distributional costs of a higher carbon tax after allowing for local spillovers.

Climate Policy Shocks and Wage Adjustments

This project studies rent sharing between firms and workers exposed to exogenous shocks induced by climate policy. Following the previous literature on productivity shocks and wage adjustments, I exploit fluctuations in permit prices under the European Union Emissions Trading System (EU ETS) to study the effects on profit and wages among Swedish regulated firms. I use matching techniques, comparing regulated firms with unregulated firms with overlapping characteristics, in combination with time variation in permit prices, to identify the effects of shocks to climate policy stringency. I allow for different effects for net buyers versus net sellers of pollution permits, in order to investigate whether wage effects depend on the sign of the shock.

Peer-Reviewed Publications

Karlsson, J. (2021). Temperature and Exports: Evidence from the United States. *Environmental and Resource Economics, 80*(2), 311-337. doi.org/10.1007/s10640-021-00587-5

This paper estimates the effect of exogenous short-term temperature changes on the economy of the United States, using high-resolution data on monthly exports, which has not been previously exploited in the literature. The detailed disaggregation of U.S. export data into sectors enables a top-down estimation of the net effect of temperature, while also identifying potential mechanisms at the micro level. Using an econometric specification that allows for high parametric flexibility, I find significantly negative effects of both high and low

temperatures. The magnitude of the effects corresponds to an average reduction of annual U.S. exports by 0.20%, following a uniform 2°C temperature increase. Industry heterogeneity in the temperature effect suggests disparate mechanisms behind hot and cold days, which are important to take into account when forecasting the future economic damages of climate change in the United States.

Other Publications

Den svenska koldioxidskattens effekter på arbetsmarknaden (in Swedish). *Report for Swedish Agency for Growth Policy Analysis* (Planned 2025)

Referee Activity

Oxford Economic Papers

Grants

2023	Adlerbert Travel Scholarship (20,000 SEK)
	Hedelius Travel Stipend (300,000 SEK)
2022	Adlerbert Travel Scholarship (20,000 SEK)

Seminars and Conferences

2025	EAERE Annual Conference (NHH Bergen);
2024	EAERE Annual Conference (KU Leuven); EnergyEcoLab (UC3 Madrid);
	EALE Annual Conference (NHH Bergen); Micro Seminar (NHH Bergen);
	Nordic Environmental and Resource Economics Seminar (Virtual)
2023	CERE (U Umeå)

Other Activities

2024	External Reviewer - *Green transition and supply of skills (Report 2024:04)*, Swedish Agency for Growth Policy Analysis
2023 – 2024	Reference Group Member - *Green transition and industry (Report 2024:10)*, Swedish Agency for Growth Policy Analysis
2022 – 2023	Organizer of the Environmental Economics Seminar Series, Department of Economics, University of Gothenburg
2020 – 2021	Student Representative at the Research and Doctoral Education Board, Department of Economics, University of Gothenburg
2018	Research Internship, Department of Economics, University of Gothenburg

Additional Education

2023	*Wage Determination*, Summer School, Barcelona School of Economics
2022	*New Developments in the Econometrics of Heterogeneous Workers and Firms*, CEMFI Summer School, Madrid
2022	*Research Ethics*, Department of Economics, University of Gothenburg
2021	*Teaching in Higher Education*, Department of Economics, University of Gothenburg

Teaching (Undergraduate Level)

2022 – 2023	International Economics
2022 – 2023	Intermediate Macroeconomics
2021 – 2023	Macroeconomics
2021 – 2023	Economics in Practice
2021	Stata support for thesis work

Work Experience

2019 – 2020	Research Assistant (full-time), Department of Economics, University of Gothenburg
2015 – 2017	Optical Assistant (part-time), Synoptik, Gothenburg

Skills

LaTeX, R, Stata, SQL

Languages

Swedish (native), English (fluent), Spanish (good)

References

Jessica Coria (supervisor)
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