

JIMMY KARLSSON

Curriculum Vitae (November 2024)

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RESEARCH INTERESTS

Environmental Economics, Labor Economics

EDUCATION

- 2020 – 2025 **Ph.D. in Economics**, Department of Economics,
(expected) University of Gothenburg
Supervisors: Ass. Prof. Jessica Coria and Prof. Mikael Lindahl
Dissertation Title: *Essays in Environmental and Labor Economics*
- 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

Climate Policy and Labor Market Inequality [JOB MARKET PAPER]

This paper investigates the effects of carbon taxation on labor market inequality in Sweden. Using matched employer-employee data from the Swedish registers for the years 2004-2018, I estimate the effects of a reform that increased the stringency of the tax for a subset of firms in the manufacturing sector. Using a difference-in-difference framework, I find that the reform significantly reduced emissions among treated firms. However, it also reduced the employment of workers without a high school degree. Further results suggest that this effect is driven by a reduction in the hiring rate of this group. In addition, I find that negative employment impacts are concentrated among emission-intensive firms, which face the largest cost increases when carbon tax rates rise. The results show that carbon taxation, while effective at reducing emissions, may have strongly heterogeneous employment impacts,

and that complementary policies might be needed to address labor market inequalities when implementing climate policy.

Carbon Taxation, Career Paths and Wages

This project studies the effects of carbon taxation on individuals' career trajectories. I collect data on local labor markets in Sweden, and calculate the share of local employment exposed to the carbon tax reform described above. I develop a shift-share model that defines treatment using the local labor market exposure, to take into account local general equilibrium effects when analyzing the effects of increasing climate policy stringency. The empirical framework allows me to study the causal effects on individuals' job transitions, labor market participation, internal migration and labor income.

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

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

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

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Associate Professor
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