

Johannes Gessner

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Research Fields

Environmental Economics, Applied Microeconomics, Innovation, Transportation

Academic Positions

Postdoctoral Research Fellow, Toulouse School of Economics 2025 - present

Education

Ph.D., Economics, University of Mannheim	2025
Master, Economics, University of Mannheim	2021
Bachelor, Economics, University of Mannheim	2019

References

Professor Ulrich J. Wagner, PhD
Dept. of Economics, University of Mannheim
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Professor Dr. Bernhard Ganglmair
Dept. of Economics, University of Mannheim
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Working Papers

Environmental Regulation in the Car Industry and Technological Change Among Suppliers

(Job Market Paper)

Abstract: Suppliers of intermediate inputs can be important drivers of technological change. Nevertheless, regulation aiming to induce technological transformations, e.g. in the context of climate change mitigation, is often imposed only on final products. In this paper, I study the effect of a performance standard for a final product on the innovation outcomes of intermediate input suppliers. I construct a novel data set, linking patent applications by automotive suppliers to administrative data on their client's compliance with the European CO2 emission standard for passenger cars. To identify the causal effect of changes in the stringency of the downstream emission standard, I leverage the heterogeneous exposure of suppliers, measured using proprietary data on supply chains in the car industry, to changes in the composition of the European car market. I find that being exposed to more stringent downstream environmental regulation increases innovation for zero- or low-emission vehicle technologies among existing suppliers. Moreover, when car manufacturers face more stringent regulation, they are more likely to source from additional suppliers with expertise in emission-reducing technologies. These results suggest that environmental regulation induces technology spillovers from suppliers to the regulated downstream firms.

No Place Like Home: Charging Infrastructure and the Environmental Advantage of Plug-in Hybrid Electric Vehicles (with Benjamin Rübenacker, Wolfgang Habla and Ulrich Wagner)

CEPR Discussion Paper No. 20069, February 2025. Revise & resubmit to the Journal of the European Economic Association

The Alignment Effect of Auditing (with Andreas Gerster and Michael Kramm)

CRC TR 224 Discussion Paper No. 696, August 2025, Revise & resubmit to the Journal of Public Economics

Publications

Targeted Policies to Break the Deadlock on Heating Bans

(with Ottmar Edenhofer, Andreas Gerster, Erica Myers, Michael Pahle and Karen Palmer) *Nature Climate Change, Comment*, 2025

Can Social Comparisons and Moral Appeals Encourage Low-Emission Transport Use?

(with Wolfgang Habla and Ulrich Wagner) *Transportation Research Part D: Transport and Environment*, Volume 133, 2024

Teaching Experience

E600 Mathematics (Preparatory Course, Master), Uni Mannheim, Instructor	Fall 2024
E600 Mathematics (Preparatory Course, Master), Uni Mannheim, Instructor	Fall 2023
E603 Advanced Econometrics (Master), Uni Mannheim, TA for Prof. Frölich	Fall 2022
Principles in Economics (Bachelor), Uni Mannheim, TA for Dr. Habermalz	Fall 2021
Linear Algebra 1 (Bachelor), Uni Mannheim, TA for Prof. Boecherer	Fall 2017

Scholarships

Research Grant for Doctoral Students, German Academic Exchange Service (DAAD)	09/23 - 11/23
Scholarship, Graduate School of Economic and Social Sciences, Uni Mannheim	09/20 - 08/21

Professional Activities

Seminar, Conference and Workshop Presentations

- 2026 CESifo Junior Workshop on Energy and Climate Economics, CEMFI Energy Workshop, University of Barcelona IEB: XIV International Academic Symposium, EMEE 2026, Toulouse School of Economics
- 2025 Toulouse School of Economics, VfS Annual Conference 2025, 30th EAERE Annual Conference, LSE Environment Camp, envecon 2025, MaCCI IO Day, University of Basel, Budapest University of Technology and Economics, University of Mannheim, VATT Institute for Economic Research
- 2024 29th EAERE Annual Conference, AERE 2024 Summer Conference, 12th Mannheim Conference on Energy and the Environment, AURÖ Young Researchers Workshop, 13th CRC TR 224 Workshop for Young Researchers, University of Mannheim
- 2023 University of Pennsylvania, Yale School of the Environment, University of Mannheim
- 2022 27th EAERE Annual Conference, 10th Mannheim Conference on Energy and the Environment, University of Mannheim, University of Heidelberg

Refereeing

Journal of the European Economic Association, *Journal of Environmental Economics and Policy*, *Environmental and Resource Economics*, *Ecological Economics*

Skills

Software: R, Stata, MATLAB, Python, LaTeX, MS Office, Git

Languages: German (native), English (C2), French (B1)

Citizenship: German

Last updated: April 30, 2026