Pascal Heid

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Placement Officers
Professor Mathias Reynaert
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Doctoral Studies

Toulouse School of Economics (TSE)
PhD, Economics, 2027 (Expected)
Title: *"Essays in Empirical Industrial Organization of the Energy Transition"*

References

Professor Mathias Reynaert
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Professor Isis Durrmeyer
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Professor Stefan Ambec
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Prior Education

M.Sc. in Economics, Toulouse School of Economics	France, 2020–2021
M.Sc. in Economics, Bonn University	Germany, 2018–2020
obw Exchange Program, University of Western Ontario	Canada, 2017–2018
B.Sc. in Economics, Mannheim University	Germany, 2015–2018

Fields

Empirical Industrial Organization, Energy Economics, Environmental Economics

Teaching Experience

Toulouse School of Economics — France
Teaching Assistant
Applied Econometrics, Master level (2023, 2024, 2025)
Industrial Organization, Master level (2023, 2024)

Bonn University — Germany
Teaching Assistant
Microeconomics A, Bachelor level (2019)

Relevant Positions

Research Assistant for Mathias Reynaert	France, 2022
Vocational Training in Banking (Bankausbildung), Donner & Reuschel, Munich	Germany, 2013–2015

Fellowships, Honors, and Awards	Doctoral Fellowship, Toulouse School of Economics	2022–2027
	M.Sc. in Economics awarded *with distinction*, Toulouse School of Economics	2021
	Scholarship for Master, Toulouse School of Economics	2020–2022
	Full one-year scholarship for exchange at the University of Western Ontario, obw Exchange Program	2017–2018
	DAAD PROMOS Scholarship for exchange at the University of Western Ontario	2017–2018
Professional Activities	Contributor to public Python packages for OpenSourceEconomics, Bonn University	2020
Presentations	TSE IO Seminar	2026
	TSE IO Workshop, TSE Environmental Workshop, Discussant at Toulouse Energy and Climate Economics Conference	2024
	TSE IO Winter Workshop	2023
	TSE IO Workshop	2022
Languages	German, English, French	
Citizenship	German	**Gender:** Male

Research Papers

"Wind Turbine Entry and Transmission Expansion: Evaluating Spatial Subsidies in Germany" (Job Market Paper)

Abstract: Ambitious renewable energy targets create a costly spatial mismatch between electricity supply and demand under network constraints. I study how two policy margins interact in addressing the costs from balancing supply and demand: spatial renewable subsidy design that reduces the mismatch and transmission investment that relaxes network constraints but arrives with a delay. I develop and estimate a spatial model of onshore wind-turbine entry and combine it with a network-constrained dispatch model of the German electricity system allowing for endogenous congestion management. Removing the spatial signal from current subsidies leaves congestion and the benefits of a planned network expansion largely unchanged. Replacing the existing signal with a local congestion signal instead improves wind integration and lowers costs. On its own, this design achieves 26 percent of the gains from costly network expansion, substantially reducing incentives to undertake it.

"Equilibrium Effects in Complementary Markets: Electric Vehicle Adoption and Electricity Pricing" with Kevin Remmy and Mathias Reynaert

revise and resubmit at *American Economic Review*

Abstract: Electric vehicles shift passenger transport from oil to electricity, linking vehicle adoption to hourly power-market conditions. We develop and estimate a joint equilibrium model of German vehicle demand and electricity supply in which driver-specific charging decisions map travel profiles and electricity prices into EV operating costs and load. A 10% EV stock raises wholesale prices by 3.3%, creating sizable cost spillovers on non-EV electricity users, but reduces EV adoption by less than 1%. Time-varying tariffs lower charging costs and shift load to cheaper hours; in equilibrium, EV adoption offsets much of the system-cost relief while redirecting generator profits toward renewables.