Jan Rosa

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Specialization: Regional Economics | **Languages:** English, Polish, French (basic)

Work Experience

Economist, Organisation for Economic Co-operation and Development (OECD), CFE, Economics, Data and Statistics Division   *September 2025 – Present*

- Developed a regional venture capital investment dataset
- Developed the third chapter of the OECD policy report *Growth in All Types of Regions*

Research Assistant, Prof. David Green (University of British Columbia, Vancouver) *May 2021 – January 2024*

- Estimated large Bayesian macroeconomic models
- Conducted advanced statistical analysis using Canadian administrative data

Teaching Assistant, University of British Columbia   *January 2021 – May 2024*

- Teaching support for courses in econometrics, macroeconomics, and quantitative methods

Research Assistant, Group for Research in Applied Economics (Warsaw)   *May 2016 – December 2016*

- Produced demographic research reports and analyzed large population datasets

Education

University of British Columbia (Vancouver)	PhD in Economics	2019–2025
University Paris 1 Panthéon-Sorbonne (Paris)	MA in Models and Methods of Quantitative Economics (QEM)	2017–2019
University of Warsaw (Warsaw)	BSc in Mathematics	2013–2017
Warsaw School of Economics (Warsaw)	BSc in Quantitative Methods in Economics and Information Systems	2012–2016

Research

Job Market Paper:

National Firms, Local Effects: Spillovers from Multi-Establishment Employers' Expansions

- Studies labor market spillovers using administrative panel data and modern econometric methods

Working Papers:

Spooky Boundaries at a Distance: Inductive Bias, Dynamic Models, and Behavioral Macro
Conditionally Accepted, Journal of Monetary Economics [GitHub repository]
Co-authored with Mahdi Ebrahimi Kahou, Jesús Fernández-Villaverde, Sebastián Gómez-Cardona, and Jesse Perla.

- Develops deep-learning-based solutions to high-dimensional dynamic economic models
- Python (PyTorch) package and command-line interface

Technical Skills

Econometrics and Methods: Difference-in-Differences, Event Studies, Instrumental Variables, Regression Discontinuity, Randomized Controlled Trials, Synthetic Controls, Clustering, Discrete Choice

Models, Bayesian Analysis, Causal Machine Learning, Neural Networks.

Programming: R (data.table), Python (pandas, PyTorch, Keras, NumPy, SciPy, Polars), Julia, Stata, VBA, C++.

Grants and Awards

- UBC Doctoral Fellowship (2019–2023)
- A.D. Scott Fellowship in Economics (2020)
- French Foreign Ministry Scholarship (2018)

Invited Presentations

- Canadian Economics Association Annual Meeting (2024)
- European Economic Association Annual Meeting (2025)

Private Information

Nationality: Polish (Canadian Permanent Resident)