MARCUS ROESCH

PhD Economist with practical and theoretical knowledge of causal and predictive data analysis. I'm eager to apply and expand my quantitative skills to help drive data-driven corporate strategies.

📅 03 February 1994

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🌐 mrcsrsch.github.io

◯ mrcsrsch

in marcus-roesch

SKILLS

Causal Inference: matching, difference-in-differences, synthetic control, regression discontinuity design, IV, IPW, DML

Machine Learning: Supervised and unsupervised models, deep learning, bagging, boosting, bootstrap

Econometrics: simulated method of moments, bootstrap

Economics: international trade, labor economics

Coding: R, Python, SQL, Stata

OTHER

· Published in academic journals
· Languages: German (native), English, Dutch (fluent), Spanish (basics)

CERTIFICATES

2024: Machine Learning for Business, Deep Learning

2023: Econometrics of Networks, SQL

2022: Foundations of Data Analysis and Machine Learning in Python

2022: Firm Dynamics and Economic Growth

WORK EXPERIENCE

Applied Researcher
Centraal Bureau voor de Statistiek (Statistics Netherlands)
Nov '19 - now

· Analyzed micro-level datasets on wages and graduations with > 100M rows
· Implemented causal inference and machine learning methods in R
· Presented at internal seminars

Researcher
Erasmus School of Economics, Rotterdam, Netherlands
Sep '19 - now

· Wrote research papers in collaboration with other researchers
· Maintained contact to key stakeholders
· Presented at various leading international conferences
· Organized internal research seminars
· Taught MSc courses in Economics and Econometrics
· Mentored > 30 empirical thesis projects

Research Assistant
University of Konstanz and Ifo Institute, Germany; Copenhagen Business School, Denmark
Nov '15 - Jun '17

· Assembled, analyzed and visualized economic and financial datasets

EDUCATION

Erasmus University Rotterdam / Tinbergen Institute
Ph.D. Economics
2024

Advisors: Frank van Oort, Bas Karrreman, Michiel Gerritse
Dissertation: Multinational Firms and Local Workers 📖
Research visit to Bocconi University, Italy
Coursework specialization in Econometrics and Machine Learning

Utrecht University
M.Sc. Law and Economics
with distinction 'cum laude'
2018

Master Thesis Award 2017-2018
Finalist at European Competition Law Moot Court, King's College, UK

University of Konstanz
B.Sc. Economics
with distinction 'very good'
2017

Specialization Quantiative Economics and Econometrics
Exchange semester at Copenhagen Business School, Denmark