03 February 1994

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marcus-roesch

SKILLS

Causal Inference: difference-in-differences, synthetic control, causal machine learning (Double ML), hypothesis testing

Supervised Machine Learning: regression, tree-based models, ensemble methods, support vector machines, deep learning (neural networks)

Unsupervised Machine Learning: clustering, dimensionality reduction

Economics: international trade, labor economics

Programming: R, Python, SQL, Git

CERTIFICATES

2024: Machine Learning for Business; Deep Learning

2023: Econometrics of Networks; SQL

2022: Foundations of Data Analysis and Machine Learning in Python; Firm Dynamics and Economic Growth

OTHER

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

Marcus Rösch, PhD

Curious and result-driven economist with the skills to uncover insights from complex data. Known for strong problem-solving skills and clear communication of complex ideas. Eager to collaborate on projects where data improves corporate decisions.

WORK EXPERIENCE

Applied Researcher — Sep '24 - now
Erasmus School of Economics, Netherlands

- Led a research project on employment opportunities of alumni
- Consulted management on data analyses for corporate decisions

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

- Collected, cleaned, visualized and analyzed data with > 100M rows
- Applied methods from causal inference and machine learning
- Managed contact with key stakeholders from academia and government

Doctoral Researcher — Sep '19 - Aug '24
Erasmus School of Economics, Netherlands

- Managed three long-term research projects
- Developed new methodologies for studying income differentials
- Presented at leading international conferences; organized internal seminars
- Mentored 30+ thesis projects and taught master's courses

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

- Assembled, analyzed and visualized economic and financial datasets

EDUCATION

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

Dissertation: Multinational Firms and Local Workers

Research visit to Bocconi University, Italy

Coursework specialization in Machine Learning, AI and Econometrics

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

Award for Best Master's Thesis

Finalist at European Competition Law Moot Court, King's College, UK

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

Exchange semester at Copenhagen Business School, Denmark