



Marcus Rösch, PhD

Curious and result-driven Economist with the skills to uncover key insights from complex data. Known for strong problem-solving skills and clear communication of complex ideas. I'm eager to collaborate on projects where data creates real impact.

- 📅 03 February 1994
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SKILLS

Causal Inference: hypothesis testing, difference-in-differences, matching, synthetic control, bootstrap

Machine Learning: supervised and unsupervised models, deep learning, bagging, boosting

Economics: international trade, labor economics

PROGRAMMING

R: data.table, fixest, ggplot2, MatchIt, did

Python: TensorFlow, sklearn, Pandas, NumPy, Matplotlib

SQL

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)

WORK EXPERIENCE

Applied Researcher

Sep '24 - now

Erasmus School of Economics, Rotterdam, Netherlands

- Consulted management on data analyses for policy decisions
- Executed analyses in Python and drafted a report

Applied Researcher

Nov '19 - now

Centraal Bureau voor de Statistiek (Statistics Netherlands)

- Collected, cleaned, visualized and analyzed data with > 100M rows
- Improved data processing speed by 50%

Researcher

Sep '19 - Aug '24

Erasmus School of Economics, Rotterdam, 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
Ph.D. Economics

2024

Advisors: Frank van Oort, Bas Karreman, Michiel Gerritse

Dissertation: Multinational Firms and Local Workers 📄

Research visit to Bocconi University, Italy

Coursework specialization in Econometrics and Machine Learning

Utrecht University

2018

M.Sc. Law and Economics

with distinction 'cum laude'

Master Thesis Award 2017-2018

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

University of Konstanz

2017

B.Sc. Economics

with distinction 'very good'

Specialization Quantitative Economics and Econometrics

Exchange semester at Copenhagen Business School, Denmark