



03 February 1994  
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 marcus-roesch

## 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)

# Marcus Rösch, PhD

Curious and result-driven PhD in Economics 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 for business.

## WORK EXPERIENCE

### Applied Researcher

Erasmus School of Economics, Rotterdam, Netherlands

Sep '24 - now

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

### Applied Researcher

Centraal Bureau voor de Statistiek (Statistics Netherlands)

Nov '19 - now

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

### Researcher

Erasmus School of Economics, Rotterdam, Netherlands

Sep '19 - Aug '24

- 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

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 Karreman, 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 Quantitative Economics and Econometrics

Exchange semester at Copenhagen Business School, Denmark