

Nadja van 't Hoff

QUANTITATIVE ECONOMICS SECTION · AMSTERDAM SCHOOL OF ECONOMICS · UNIVERSITY OF AMSTERDAM

[✉ n.a.l.vanthoff@uva.nl](mailto:n.a.l.vanthoff@uva.nl) | [🏠 nadjavanthoff.com](http://nadjavanthoff.com)

Research

Primary field: **Econometrics**

Secondary fields: **Causal inference, Applied microeconometrics**

My interests are within the field of **microeconometrics**, specifically **causal inference** and **causal machine learning**, especially the methods for identifying and estimating causal effects in case of **many instrumental variables**. I am also interested in the **empirical application** of these methods within **health** and **development economics** to evaluate policy interventions using observational data.

Academic positions

Assistant Professor (tenure-track)

Econometrics Group, University of Amsterdam

Amsterdam, NL

Sept 2025 - Now

Assistant Professor (non-tenure-track)

Econometrics and Data Science Group, University of Southern Denmark

Odense, DK

Mar 2024 - Aug 2025

Affiliations

Candidate Fellow

Tinbergen Institute

Amsterdam, NL

Dec 2025 - Now

Education

Ph.D. in Economics

University of Southern Denmark

Odense, DK

Dec 2020 - Feb 2024

“Correlation Does Not Imply Causation: Essays in Causal Inference” under the supervision of Professor Giovanni Mellace

Ph.D. Committee: Toru Kitagawa, Michael Lechner, and Volha Lazuka

Visiting researcher

Boston College, host: Arthur Lewbel

Boston, US

Jan 2022 - Jul 2022

M.Sc. Econometrics and Management Science

Erasmus University Rotterdam

Rotterdam, NL

Sep 2019 - Nov 2020

B.Sc. Econometrics and Operations Research

University of Amsterdam

Amsterdam, NL

Sep 2015 - Jan 2019

University exchange

Pontificia Universidad Católica de Chile

Santiago, CL

Feb 2019 - Jul 2019

Publications

Limited Monotonicity and the Combined Compliers LATE

(Forthcoming in Review of Economics and Statistics)

with Arthur Lewbel (Boston College) and Giovanni Mellace (University of Southern Denmark)

Working papers

Identifying Causal Effects of Discrete, Ordered and Continuous Treatments using Multiple Instrumental Variables

Nudging Nutrition: Lessons from the Danish “Fat Tax”

with Christian M. Dahl (University of Southern Denmark), Giovanni Mellace (University of Southern Denmark) and Sinne Smed (University of Copenhagen)

Gender Differences in Healthcare Utilization

with Giovanni Mellace (University of Southern Denmark) and Seetha Menon (University of Southern Denmark)

Work in progress

Shapley Instruments

with Federico Crudu (Università di Siena and CRENoS), Giovanni Mellace (University of Southern Denmark) and Zsolt Sándor (Sapientia Hungarian University of Transylvania)

Group-Level Treatment Effect Heterogeneity in Difference-in-Differences: A Balanced Approach

with Nora Bearth (previously University of St. Gallen) and Torben S. D. Johansen (University of Southern Denmark)

Behavioral Traits, Substance Abuse, and Life Outcomes: Insights from Mendelian Randomization with UK Biobank Data

with Amy Mason (University of Cambridge) and Giovanni Mellace (University of Southern Denmark)

Teaching experience

Lecturer – Machine Learning for Quantitative Economics (6 ECTS)

Bachelor students, University of Amsterdam

Amsterdam, NL

Fall 2025

Teaching assistant – Machine Learning for Econometrics (5 ECTS)

Master students, University of Amsterdam

Amsterdam, NL

Fall 2025

Co-lecturer – Statistics (10 ECTS)

Bachelor students, University of Southern Denmark

Odense, DK

Spring 2025

Lecturer – Regression Analysis (10 ECTS)

Bachelor students, University of Southern Denmark

Odense, DK

Fall 2024

Lecturer – Statistics for Product Development and Innovation (5 ECTS)

Bachelor and Master students, University of Southern Denmark

Odense, DK

Fall 2021 & Fall 2022

Teaching assistant - Microeconometrics (10 ECTS)

Master students, University of Southern Denmark

Odense, DK

Fall 2020 & Fall 2021

Academic work experience

Research assistant - Causal machine learning

for Andrea Naghi and Anna Baiardi, Erasmus University Rotterdam

Rotterdam, NL

Oct 2019 - Nov 2020

Conference presentations and invited seminars (including scheduled)

2026 Seminar at University of Essex (invited)
 European Causal Inference Meeting (poster)
 Opening Conference Tinbergen Institute Amsterdam (poster)
 Seminar at University of Bristol (invited)

- 2025 Aarhus Workshop in Econometrics (invited)
Seminar at Siena University (invited)
Seminar at Tilburg University (invited)
International Association for Applied Econometrics Annual Conference
Italian Congress of Econometrics and Empirical Economics
European Causal Inference Meeting (poster)
Seminar at University of Glasgow
- 2024 Seminar at University of St. Gallen
Groningen Workshop on Causal Inference and Machine Learning (invited)
Econometric Society European Meeting
Counterfactual Methods for Policy Impact Evaluation
Aarhus Workshop in Econometrics (invited)
American Causal Inference Conference (poster)
European Causal Inference Meeting (poster)
Royal Economic Society Annual Conference
Seminar at University of Amsterdam (invited)
- 2023 European Winter Meeting of the Econometric Society
(EC)² Conference on “Identification and Inference in Structural Econometric Models” (poster)
Seminar at Lund University
European Association of Labour Economists Conference (poster)
International Association for Applied Econometrics Annual Conference
Siena Workshop on Econometric Theory and Applications
International Workshop on “Machine Learning in Program Evaluation, High-dimensionality and Visualization”
Italian Congress of Econometrics and Empirical Economics
- 2022 European Winter Meeting of the Econometric Society
Nordic Econometric Meeting

Professional service

Referee service: Empirical Economics.

Workshop co-organizer: Women in Economics Denmark Workshop, October 30-31, 2024. Together with Seetha Menon (University of Southern Denmark) and Helena Skyt Nielsen (Aarhus University).

Member of the Equality Committee: Advisory committee of the Faculty of Business and Social Sciences, University of Southern Denmark. January 2024 to June 2025.

Prizes and awards

Seal of Excellence by Marie Skłodowska-Curie Actions Postdoctoral Fellowship (European Commission). Quality label awarded to high-scoring proposals in the MSCA evaluation.

Prize for the best paper written by young scientists in Theoretical or Applied Microeconometrics (Labour Prize, offered by LABOUR: Review of Labour Economics and Industrial Relations). ICEEE 2025.

Travel grants: (1) William Demant Fonden, (2) Brorson Rejselegat and (3) Torben og Alice Frimodt Fonden. 7500 USD in total obtained in 2021.

Skills

Programming R, Python, HTML, Javascript, SQL

Languages Dutch (native), German (native), English (fluent), Spanish (basic), French (basic), Danish (basic)