

Max Welz

PhD Candidate in Statistics – Erasmus University – Rotterdam, NL

✉ welz@ese.eur.nl

🌐 <https://mwelz.github.io>

👤 [mwelz](#)

Employment

Erasmus University, Dept. of Econometrics

PhD Candidate in Statistics

Supervisors: Prof. Patrick Groenen and Dr. Andreas Alfons.

Rotterdam, NL

Since May 2020

Erasmus Medical Center, Dept. of Public Health

External Researcher

- Master thesis on causal inference in lung cancer research.
- Involvement in analyses of medical trials.

Rotterdam, NL

Since Jun. 2019

Erasmus University, Dept. of Econometrics

Research Assistant

Assisted Prof. Philip Hans Franses for 10 hours a week.

Rotterdam, NL

Aug. 2018 – Nov. 2019

Education

Erasmus University

MSc Econometrics

Rotterdam, NL

Aug. 2017 – Apr. 2020

University of Mannheim

BSc Economics (specialization in Econometrics)

Spent Fall 2016 at the Erasmus University in Rotterdam, NL.

Mannheim, DE

Sep. 2014 – Jul. 2017

Research Interests

- Robust statistics (robust inference in non-continuous data);
- Mathematical statistics (empirical process theory and high-dimensional models);
- Computational statistics (algorithms for robust inference in large data sets);
- Statistical applications in medicine, psychology, and economics.

Publications

Software

Welz, M., Alfons, A., Demirer, M. and Chernozhukov, V. *GenericML: Generic Machine Learning Inference*. R package. [[GitHub](#) | [CRAN](#)]

Presentations

Conference Presentations

Welz, M. and Alfons, A. *Outlier Detection in Rating-Scale Data via Autoencoders*. International Conference on Robust Statistics, September 21–24, 2021, Vienna, Austria.

Seminars

Welz, M. and ten Haaf, K. *Evidence-Based Medicine Meets Causal Inference*. Econometric Institute Internal Seminar, July 21, 2020, Rotterdam, The Netherlands.

Miscellaneous Presentations

Presentation of chapters in Van der Vaart's 1998 book "Asymptotic Statistics" to the reading group "[Mathematical Statistics](#)" at the math department of TU Delft. Since November 2021.

Grants and Awards

Grants

- *Open Mind Call 2021 Health and Technology* (€19,995.70).
 - Joint with Andreas Alfons (Erasmus University) and Kevin ten Haaf (Erasmus MC);
 - Issued by the Dutch [Convergence Alliance](#) (acceptance rate of 22/124 \approx 18%),
 - Awarded for the [CITRUS](#) project.

Awards

- *2021 Convergence Health and Technology Open Research Award* [[link](#)].
 - Awarded for "great commitment to open research";
 - Issued by the Dutch [Convergence Alliance](#) and several open science initiatives;
 - One of 12 recipients from various Dutch scientific institutions.

Organization Service

Local Organization Committee

- [Data Science, Statistics & Visualization and European Conference on Data Analytics 2021](#) (joint conference). July 7–9, 2021. Erasmus University Rotterdam, NL (online).
- [Data Science, Statistics & Visualization 2020](#). July 29–31, 2020. Duke University, USA (online).

Teaching

Erasmus University Rotterdam

- [FEB22015X](#): *Academic Skills (Econometrics)*. Role: Teacher. Spring 2021 (online).
- [FEB23012](#): *Seminar in Econometrics*. Role: Group supervisor. Spring 2021 (online)
- [FEB21018X](#): *Introduction to Statistics*. Role: Tech support. Fall 2020 (online).
- [FEB2003X](#): *Introduction to Multivariate Statistics*. Role: Teacher. Fall 2019.
- Thesis supervision:
 - 10 student theses for *BSc Econometrics* (5 as second assessor);
 - 2 student theses for *MSc Econometrics* (all as second assessor).

More information such as teaching evaluations can be found on my [teaching webpage](#).

Scientific Organizations

I am a member of the following organizations:

- [Institute of Mathematical Statistics](#);
- [International Association for Statistical Computing](#);
- [Open Science Community Rotterdam](#).

Skills

Software: C, C++, Java, Julia, L^AT_EX, Matlab, Python, R, Stata, Bash, Zsh, Windows, macOS, Linux (e.g. Ubuntu, Fedora).

Human languages: German (native), English (fluent), Dutch (advanced), French (beginner).

References

Patrick Groenen

Professor of Statistics
Dept. of Econometrics
Erasmus University
✉ groenen@ese.eur.nl

Andreas Alfons

Associate Professor of Statistics
Dept. of Econometrics
Erasmus University
✉ alfons@ese.eur.nl

Philip Hans Franses

Professor of Applied Econometrics
Dept. of Econometrics
Erasmus University
✉ franses@ese.eur.nl

Last updated: December 1, 2021.