

Max Welz

PhD Candidate in Statistics – Erasmus University – Rotterdam, NL

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🌐 <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.

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.

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.

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.
- Main supervisor of 5 bachelor theses.
- Second assessor of 5 bachelor theses and 2 master theses.

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

Scientific Organizations

- Member of the [Institute of Mathematical Statistics](#).
- Member of the [International Association for Statistical Computing](#).

Software

- **GenericML** ( [mwelz/GenericML](#)). R implementation of *Generic Machine Learning Inference*.

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

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Andreas Alfons

Associate Professor of Statistics
Dept. of Econometrics
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Philip Hans Franses

Professor of Applied Econometrics
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Last updated: November 24, 2021.