

# Max Welz

PhD Candidate in Statistics – Erasmus University – Rotterdam, NL

✉ [welz@ese.eur.nl](mailto:welz@ese.eur.nl)

🌐 <https://mwelz.github.io>

🐙 [mwelz](#)

## Employment

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**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

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**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

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

## Publications

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### Software

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

## Presentations

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### Conference Presentations

- CMStatistics, December 16–19, 2022, London, UK (scheduled)
- International Conference on Robust Statistics, July 5–8, 2022, Waterloo, ON, Canada (scheduled)
- Society for the Improvement of Psychological Science, June 27–29, 2022, Victoria, BC, Canada
- useR! 2022, June 20–23, 2022 (online, also session chair)
- International Conference on Robust Statistics, September 21–24, 2021, Vienna, Austria (also session chair)

## Seminars

- Social AI Seminar, June 16, 2022, Rotterdam, The Netherlands
- Tinbergen Institute PhD Seminar, October 21, 2022, Amsterdam, The Netherlands (online)
- Econometric Institute Internal Seminar, October 5, 2021, Rotterdam, The Netherlands (online)
- Research Group Statistics at Econometric Institute, June 22, 2021, Rotterdam, The Netherlands (online)
- Econometric Institute Internal Seminar, July 21, 2020, Rotterdam, The Netherlands (online)

## Miscellaneous Presentations

Various Presentations in the reading group “[Mathematical Statistics](#)” at the math department of TU Delft. Since November 2021.

## Grants and Awards

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### 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

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### 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

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### Erasmus University Rotterdam

- [FEB22015X](#): *Academic Skills (Econometrics)*. Role: Teacher. Spring 2021 (online), 2022
- [FEB23012](#): *Seminar in Econometrics*. Role: Group supervisor. Spring 2021 (online), 2022
- [FEB21018X](#): *Introduction to Statistics*. Role: Tech support. Fall 2020 (online)
- [FEB2003X](#): *Introduction to Multivariate Statistics*. Role: Teacher. Fall 2019
- Thesis supervision:
  - 14 student theses for *BSc Econometrics* (10 as second assessor)
  - 4 student theses for *MSc Econometrics* (all as second assessor)

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

## Scientific Organizations

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I am a member of the following organizations:

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

## Skills

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**Software:** C, C++, Java, Julia, L<sup>A</sup>T<sub>E</sub>X, Matlab, Python, R, Stata, Bash, Zsh, Windows, macOS, Linux (e.g. Ubuntu, Fedora)

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

## References

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**Patrick Groenen**

Professor of Statistics  
Dept. of Econometrics  
Erasmus University

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**Andreas Alfons**

Associate Professor of Statistics  
Dept. of Econometrics  
Erasmus University

✉ [alfons@ese.eur.nl](mailto:alfons@ese.eur.nl)

**Philip Hans Franses**

Professor of Applied Econometrics  
Dept. of Econometrics  
Erasmus University

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