Martje Rave

PhD Candidate · Statistics

LMU Munich, Ludwigstr. 33/II, D-80539, München

💌 martje.rave@stat.uni-muenchen.de | 🏾 https://martjerave.github.io/ | 🛅 www.linkedin.com/in/martje-rave-822b5789

Education _____

Ludwig-Maximilians-Universität

PhD Statistics

Advisor: Prof. Dr. Göran Kauermann

Univeristy of Glasgow

MSci Statistics (Integrated Masters Degree)

- Advisor: Prof. Dr. Duncan Lee
- Trained in Frequentist and Bayesian Statistics with application in R, SAS and SQL using foundations in calculus, algebra and graph theory
- Project: Is "Border Sharing" the best spatial correlation structure for modelling areal unit health data?
- Graduated with First Class

Univeristy of Southern Denmark

BSc Economics and Business Administration

- Project: Structural flaws in the Maastricht Treaty and how it led to the economical divergence in the European Monetary Union
- Grade: 8.1 (Danish 7-grade-scale)

Industry_____

2018-2020 Data Analyst, Royal Bank of Scotland 2017-2020 Teaching Assistant, Statistics, University of Glasgow 2017 Research Assistant, University of Glasgow

Publications

PUBLISHED

Fritz, C; De Nicola, G; Rave, M; Weigert, M; Khazaei, Y; Berger, U; Küchenhoff, H and Kauermann, G. 2022. Statistical modelling of COVID-19 data: Putting generalized additive models to work. Statistical Modelling, Volume 0: Ahead of Print. https://doi.org/10.1177/1471082X221124628

Contribution: Responsible for the analysis of the ICU occupancy, as well as the reporting thereof in the article.

Rave, M; Kauermann G. The Skellam distribution revisited: Estimating the unobserved incoming and outgoing ICU COVID-19 patients on a regional level in Germany. Statistical Modelling. 2024. doi:10.1177/1471082X241235024 Contribution: First author in close collaboration with Prof. Dr. Göran Kauermann.

IN REVIEW

Rave, M; Kauermann, G: Deriving Duration Time from Occupancy Data - A case study in the length of stay in Intensive Care Units for COVID-19 patients

Contribution: First author in close collaboration with Prof. Dr. Göran Kauermann.

Awards, Fellowships, & Grants _____

- 2025 Best Poster Award, Deutsche Arbeitsgesellschaft fuer Statistik (DagStat)
- 2023-2025 LMU Mentoring, LMU
- Teaching_____

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München September 2020 - present

> Glasaow 2015 - 2020

Sonderborg

2012 - 2015

| | Generalisierte Regressionsmodelle, Work shop instructor | Autumn 2020 Autumn 2021 Autumn 2022 Autumn 2024 |
|----------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| | Lineare Regressionsmodelle, Work shop instructor | <i>Spring 2021</i> <i>Spring 2022</i> <i>Spring 2023</i> <i>Spring 2024</i> |
| | Statistical Modelling, Work shop instructor | 2021 2022 2023 |
| | Spatial Statistics, Work shop instructor | Autumn 2023 Autumn 2024 |
| | Advanced Bayesian Modelling, Work shop instructor | Autumn 2024 |
| | Einführung in die Bayesianische Modellierung, Work shop instructor, Instructor | Spring 2024 Spring 2025 |
| | Wahrscheinlichkeitstheoretische Grundlagen, Work shop instructor | Spring 2024 |
| | Spatial Inference, Work shop instructor | Autumn 2021 |
| | Statistik I für Studierende der Soziologie, des Nebenfachs Statistik, Work shop instructor | Autumn 2020 |
| | Seminar: Open Science in Statistics and Machine Learning, Instructor | Autumn 2022 |
| | Seminar: Introduction to statistical analysis of areal data, Instructor | Spring 2023 |
| | Seminar: Statistical analysis of areal data, spatial point processes, Instructor | Autumn 2023 |
| | Statistics 1, Tutor | 2018 2020 |
| Service and Outreach | | |
| 2021 | Institute Tea-talks, Organisation | LMU Statistcial Institute |
| 2022-2023 | Open Science in Statistics , Committee Member | LMU Statistcial Institute |
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DEVELOPMENT AND CONFERENCES

Lehrkompetenzen GraduateCenter, This was part of an internal LMU educational programme opportunity, which taught me pedagogical approaches to teaching at a university level, such that the learning experience of the students is maximized.

5th Oxford | Berlin Summer School on Open and Responsible Research in the Life Sciences 2022, I acquired an insight into open science in life sciences, specifically medical research, and was given the opportunity to discuss common

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statistical pitfalls and shortcomings of research in these fields.

- **70th Biometric Colloquium- Lübeck, March 2024**, I was able to present my work on the Skellam distribution through a presentation.
- International Workshop on Statistical Modelling Durham, July 2024, I was able to present my work in progress on the length of stay in form of a poster.
- 7th Joint Statistical Meeting of the Deutsche Arbeitsgemeinschaft Statistik- Berlin, March 2025, I was able to present my work on the length of stay in form of a poster.

PROFESSIONAL MEMBERSHIPS

Royal Statistical Society Institute of Mathematical Statistics