Florian Metwaly

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EDUCATION

Utrecht University

Utrecht, Netherlands

M.Sc. Methodology and Statistics for the Behavioural, Biomedical and Social Sciences

September 2023 - June 2025

- Thesis: Causal Inference with Observational Data: Confidence Intervals in Emulated Target Trials
- Development of a Julia package (available on GitHub) which can be used to apply the sequential Target Trial Emulation framework on observational data sets. Further, implementing the estimation of confidence intervals through bootstrapping and comparing its performance against sandwich variance estimators. Supervised by Dr. Oisín Ryan and Dr. Wouter van Amsterdam.

University of Turku

Turku, Finland

B.A. Political Science — Exchange Student

January 2022 - May 2022

Goethe-University Frankfurt

Frankfurt, Germany

B.A. Political Science

October 2019 - August 2023

- Thesis: Populism and New Media: Measuring Populist Discourse on Twitter
- Development of a framework to measure populist appearance on Twitter based on theory. Applying that framework by training supervised machine learning algorithms, comparing their performance, and finally using the best performing one to analyse a large data set of Tweets by German politicians.

EXPERIENCE

Julius Centrum - UMC Utrecht

Utrecht, Netherlands

Student Teaching Assistant

September 2024 - Present

- Course: Epidemiology & Big Data
- Course: Onderzoeksmethoden (Research Methods)

Department of Methodology and Statistics

Utrecht, Netherlands

Student Research Assistant

October 2024 - Present

• Extending the report and findings of the internship with the goal of publishing the results in a scientific journal.

Internship

August 2024 - September 2024

- Internship on using Bayesian Evidence Synthesis to aggregate evidence from partially overlapping hypotheses, under the supervision of Prof. Dr. Irene Klugkist, Dr. Duco Veen and Alfons Edmar.
- Set up of a simulation study exploring the behaviour of the Bayes Factor in various scenarios when aggregating the evidence over multiple partially overlapping hypotheses.
- Internship report and all scripts are available on GitHub.

Student Teaching Assistant

June 2024 - August 2024

- Reviewing and creating teaching materials for the summer schools and tutoring during computer labs.
- Summer School: A Gentle Introduction to Bayesian Estimation
- Summer School: Advanced longitudinal modeling in Mplus

Student Research Assistant

November 2023 - December 2024

- Research Assistant on the BePrepared Consortium under the supervision of Dr. Peter Lugtig.
- Finding, collecting, and evaluating new and existing data sources that can be used to monitor social behaviour during pandemics on various parameters.
- Smaller tasks for Statistics Netherlands (CBS), including labeling data and testing an app developed by CBS.

Chair for Sociology specializing in Quantitative Methods

Frankfurt, Germany

Student Research Assistant October 2022 - August 2023

- Research Assistant under the supervision of Prof. Dr. Alexander Schmidt-Catran.
- Support of different research projects by conducting statistical analyses with R, replicating studies, literature reviews, and smaller tasks like creating a survey for future research, data labelling, and proofreading papers.

TechAcademy e.V.

Frankfurt, Germany Product Development April 2023 - August 2023

• As a student organization TechAcademy e.V. offers various courses and events during the semester to teach coding and product development to other students.

- Responsible for the Python track, where we designed a Data Science project for the students to follow during the semester to learn Python. This included the development of teaching materials and small lectures.
- Organization of social events in which we encourage networking between students with each other and with professionals.

Bavarian State Institute for Higher Education Research and Planning (IHF) Munich, Germany Student Research Assistant July 2021 - June 2022

• Finishing different projects started during the internship.

April 2021 - July 2021 Internship

- Using STATA and R for statistical analyses for the DiHS.c project.
- Using MaxQDA for preparing open-ended survey questions for further evaluations.
- Various literature reviews and smaller student assistant tasks.

SKILLS

Languages: German (Native), English (Fluent), Dutch (B1), Spanish (B1)

Programming Languages: R, Julia, Python, STAN Tools: Git, Mplus, STATA, SPSS, JASP, LATEX, MaxQDA