







Dr. Manuel Stapper

Keppel St
London WC1E 7HT

 ManuelStapper.github.io |  +49 170 4654941 |  manuel.stapper@gmail.com
 ManuelStapper |  0000-0002-8762-8110 |  Manuel-Stapper

Personal Profile

Research fellow in the field of statistics and data science with interest in disease spread, count data modelling and robust statistics. 7+ years of experience in teaching undergraduate and graduate students. Software package development enthusiast with 11+ years of experience in R and 4+ years in Julia.

Education

University of Münster

PhD Econometrics and Economic Statistics

- Thesis: "Advances in Computational Statistics"

Münster, Germany

Nov 2017 - Nov 2023

TU Dortmund University

M.Sc. Statistics

- Minor: Economics/Operations Research
- Thesis: "Robust Fitting of INARCH Processes"

Dortmund, Germany

Oct 2015 - Oct 2017

TU Dortmund University

B.Sc. Statistics

- Minor: Economics/Operations Research
- Thesis: "Spielstärkebewertung bei Doppelkopf und Skat"

Dortmund, Germany

Oct 2011 - Jun 2015

Employment

London School of Hygiene and Tropical Medicine

Research Fellow

- Modelling and forecasting of disease spread

London, UK

Jan 2024 - Present

University of Münster

Research Assistant

- Count data time series modelling
- Robust statistics
- Long memory in count data

Münster, Germany

Nov 2017 - Jan 2024

Publications

Articles

- Stapper (2021), **Count Data Time Series Modelling in Julia - The CountTimeSeries.jl Package and Applications**, Entropy 23(6)
- Segnon, Stapper (2019), **Long Memory Conditional Heteroscedasticity in Count Data**, CQE Working Papers, 82/2019

Software

- Stapper (2022), **MFit.jl - M-Estimation of Parametes in IID Samples**
- Stapper (2022), **RandomVariables.jl - Random Variables, Transformations and Probabilities**
- Stapper (2020), **CountTimeSeries.jl - Count Data Time Series Modelling**

Teaching

MCMC

Graduate

Summer 23

Advanced Statistics

Undergraduate

Winter 22/23, Winter 20/21

Introduction to Julia

Conference Workshop

Sep 2022

Advanced Time Series Analysis

Graduate

Summer 22, Summer 21, Winter 19/20

Econometrics

Undergraduate

Winter 21/22, Summer 18, Winter 17/18

Empirical Economics

Undergraduate

Summer 20

Empirical Economics

Undergraduate

Summer 20

Introduction to R

Graduate

Summer 19

Econometrics

Graduate

Winter 18/19

Thesis Supervision

Master

- The Effect of Wind Turbines on House Prices in Germany - Evidence from a Machine Learning based Estimation Approach
- Bayesian Latent Cluster Detection in the International Arms Trade Network
- Carbon Price Acceptance: An Empirical Application of Machine Learning Methods for Estimating Heterogeneous Treatment Effects

Bachelor

- Prediction of Disruption Ticket Volumes based on a Time Series Analysis using the eTTs Reporting System of Deutsche Telekom AG as an Example
- Non-Parametric Machine Learning Regression under Misspecification
- Robust Fitting of INGARCH Processes - A Generalized Method of Moments Approach
- INARMA Models - Parameter Estimation by Indirect Inference

Conference Presentations

Commuting and the Spread of Infectious Diseases – Influenza in Germany

Compstat Conference

London

Aug 2023

Commuting and the Spread of Infectious Diseases – Influenza in Germany

ASA Joint Statistical Meeting

Toronto

Aug 2023

RandomVariables.jl - A Julia Package for Random Variables and Probabilities

CFE/CMStatistics

London

Dec 2022

CountTimeSeries.jl - A Julia Package for Integer-Valued Time Series

Statistische Woche

Münster

Sep 2022

Accounting for Asymmetry in M-Estimation

Statistische Woche

Münster

Sep 2022

Accounting for Asymmetry in M-Estimation

COMPSTAT Conference

Bologna

Aug 2022

Sources of Global Trading Activities

CFE/CMStatistics

London

Dec 2019

Long Memory Conditional Heteroscedasticity in Count Data

DAGStat Conference

Munich

Mar 2019

The INFIGARCH Model and its Application in Trading Activity

Stochastic Models, Statistics and their Application

Dresden

Mar 2019

Long Memory Conditional Heteroscedasticity in Count Data

CFE/CMStatistics

Pisa

Dec 2018