

MAXIMILLIAN MANTEI

Doctoral Student

📅 September 24, 1988

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EDUCATION

Doctoral Student in Economics

University of Hamburg, DFG Graduate School:

Internationalization of the Law and its Economic Analysis

📅 2016 - present

📍 Hamburg, Germany

MSc Politics, Economics, and Philosophy

University of Hamburg

📅 2013 - 2016

📍 Hamburg, Germany

Grade: 1.3 (CGPA 3.7/4.0)

BA Political Science and Economics

University of Bremen

📅 2009 - 2013

📍 Bremen, Germany

Grade: 1.6 (CGPA 3.4/4.0)

Erasmus Exchange

Aarhus University

📅 2011-2012

📍 Aarhus, Denmark

Abitur

Freie Evangelische Bekenntnisschule Bremen

📅 2006 - 2008

📍 Bremen, Germany

Grade: 1.3 (CGPA 3.7/4.0)

DISSERTATION WORK

Doctoral Thesis (DFG Scholarship)

The Law and Economics of Foreign Direct Investment

- Full Bayesian semi-parametric, hierarchical GLM estimation of FDI flows and stocks using dyadic panel data
- Causal models for endogenous sample selection and missing not at random data to estimate heterogeneous effects of treaty clauses

MSc Thesis

Declining Price Anomaly in Dutch Rose Auctions Revisited

- Replication study accounting for behavioural effects in Dutch auctions
- Hierarchical Bayesian analysis to model individual bidder behaviour

BA Thesis

Mechanical and Psychological Effects of Electoral Systems in Western-European Democracies in the Interwar Period

- Measuring the extend of strategic voting in merging democracies
- Non-linear Regression to quantify party (dis-)advantage due to district magnitude and heterogeneity

PROFILE

I'm a quantitative social scientist passionate about hierarchical Bayesian modeling, especially in Stan. I strongly believe in the interplay of domain expertise trough informed priors and quantification of uncertainty through probabilistic reasoning. I love exploring data, building bespoke models, and visualizing key insights.

TECHNICAL

R ●●●●●

Stan ●●●●●

Python ●●●●●

Julia ●●●●●

SQL ●●●●●

SKILLS

Data Wrangling ●●●●●

Statistical Modeling ●●●●●

Machine Learning ●●●●●

Data Visualization ●●●●●

Dashboarding ●●●●●

PACKAGES & TOOLS

tidyverse RStan cmdstanr brms
mcgv glmnet Keras tidymodels
tf.estimator NumPy Pandas Git
tf.probability caret AWS \LaTeX
ggplot2 Selenium Regex
RMarkdown Jupyter Shiny

WORK EXPERIENCE

Self-employed

Data analysis and statistical programming

📅 Jan 2014 - present 📍 Hamburg, Germany

Research Assistant

University of Hamburg

Faculty of Business Economics and Social Sciences

📅 Oct 2016 - Dec 2017 📍 Hamburg, Germany

- Literature review for course work
- Formatting articles for journal submission

Research Assistant

University of Hamburg

DFG research project on distributional justice and procedures

📅 Nov 2015 - Jul 2016 📍 Hamburg, Germany

- Conducting an behavioural economics RCT with real effort tasks
- Summarizing, visualizing, and analyzing collected experimental data

Research Assistant

Ruhr-Universität Bochum

Chair of International Economics

📅 Oct 2014 - Sep 2016 📍 Bochum, Germany

- Compilation of an extensive dyadic panel dataset on foreign direct investments and confounding variables used in published research
- Conducting empirical analysis using gravity-type regression models

Tutor

Extracurricular tutorial: Social Choice and Welfare

📅 Sep 2014 - Mar 2014 📍 Hamburg, Germany

Internship

HKM Gesellschaft für Marketingforschung & Beratung mbH

📅 Mar 2013 - Sep 2013 📍 Hamburg, Germany

- Data analysis with focus on the European automotive market
- Developing a methods guideline for practical application of factor models and regression analyses

Internship

Ministry of Economic and Labor Affairs

Department of European Funds for Regional Development

📅 Feb 2011 - Apr 2011 📍 Hamburg, Germany

- Quantification and evaluation of public disclosure measures

Internship

SPD Constituency Office Hamburg-Mitte

📅 Aug 2009 - Sep 2009 📍 Hamburg, Germany

- Organization and execution of campaign rallies during BTW2009

Compulsory Civilian Service

Senator for Education and Science

📅 Aug 2008 - May 2009 📍 Bremen, Germany

- Assistance of physically and intellectually disabled children at an inclusive elementary school

LANGUAGES

German

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English

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Spanish

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CONFERENCES

ETSG (Volume 14 Number 1)

20th Anniversary of the European Trade Study Group

📅 Sep 2019 📍 Bern, Switzerland

StanCon 2019

Cambridge University

📅 Aug 2019 📍 Cambridge, UK

StanCon 2018

Aalto University

📅 Aug 2018 📍 Helsinki, Finland

AFED 2017

2nd Annual Conference of the French Association of Law and Economics

📅 Nov 2017 📍 Aix-Marseille, France

SIDE 2017

13th Annual Conference of the Italian Society of Law and Economics

📅 Dec 2017 📍 Rome, Italy

HOBBIES & OTHER



Stan Community Leader

Voluntarily supporting Stan users in statistical and computational issues
<https://discourse.mc-stan.org/>



Music Enthusiast

Passionately listening to, playing, and creating music



Band Leader

Co-leading a group of over 20 musicians at our local church



Reading News

Interested in world politics, and current and historical affairs



Football Stats

Casually gathering, modeling, and visualizing football statistics