

Jakob R. Jürgens

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EDUCATION

M.SC. ECONOMICS | BONN UNIVERSITY Oct 2020 – Present

- Current Average Grade: **1.0** [from 60 / 90 course-based ECTS credits]
- Focus on **Statistics, Econometrics** and **Microeconomic Theory**

B.SC. ECONOMICS | BONN UNIVERSITY Oct 2017 – Jul 2020

- Final Grade: **1.1** [best 2.5% of graduates]
- Bachelor Thesis supervised by Prof. Dr. Joachim Freyberger:
Malicious Intent and Multiple Testing in Regression Discontinuity Estimation

B.SC. MATHEMATICS | BONN UNIVERSITY Oct 2016 – Jul 2017

- Not completed

ABITUR | SANKT LEONHARD GYMNASIUM AACHEN 2008 – 2016

- Final Grade: **1.0**
- DMV-Abiturpreis [Award by the German Mathematical Society]

RESEARCH EXPERIENCE

INSTITUTE OF FINANCE AND STATISTICS | RESEARCH ASSISTANT
BONN UNIVERSITY Nov 2020 – Present

- Work for Prof. Dr. Lena Janys and Prof. Dr. Joachim Freyberger [Statistics Group]
- Scientific programming with **R** and **C++** including work with **computing clusters, parallelization** and **package development**
- Development of Teaching Material for Econometrics PhD Courses
- Research position created by the Department of Economics as part of the **German Excellence Strategy** for research

GERMAN COUNCIL OF ECONOMIC EXPERTS | INTERN Aug 2020 – Oct 2020

- Work with the Business Cycle Analysis and Monetary Policy Teams
- **GDP Now- and Forecasting** with R and Python based on time series data of varying frequency and publication lag
- Analysis of Corona Recovery based on **Google Mobility Data** and high-frequency **Electricity Market Data**

INSTITUTE FOR INTERNATIONAL ECONOMIC POLICY | STUDENT ASSISTANT
BONN UNIVERSITY Apr 2018 – Jun 2020

- Work for Prof. Dr. Jürgen von Hagen
- Assistant to all members of the Institute [scientific and administrative tasks]

PROGRAMMING

LANGUAGES

- R, Python, C++, C
- Java, Julia (Beginner)

SPECIAL SKILLS

- Rcpp and Parallelization in R
- Using SLURM-based computing clusters
- MPI parallelization in C

PROJECTS

OUTLIER DETECTION IN SENSOR DATA USING FUNCTIONAL DEPTH MEASURES Jun 2021 – Present

- Final Project for the courses **Microeconometrics** and **Scientific Computing**
- In Cooperation with **Daimler AG**
- Supervisor: Prof. Dr. Philipp Eisenhauer

COMPARISON OF VARIABLE IMPORTANCE FEATURE SELECTION METHODS IN CONTINUOUS RESPONSE RANDOM FOREST Jul 2021 – Aug 2021

- Final project for the course **Computational Statistics**
- Supervisor: Marina Khismatullina, PhD

ELECTIONS, FASHION, HERD INSTINCT - MECHANISMS OF COLLECTIVE CHOICE 2018

- Agent-based Modeling of Parties in Political Competition
- Summer Academy – German Academic Scholarship Association

FLIGHT AND MIGRATION IN EUROPE. INSIGHTS INTO THEORY AND PRACTICE OF THE EUROPEAN MIGRATION REGIME 2017

- Political, Economical and Sociological Analysis of Migration
- Summer Academy – German Academic Scholarship Association

AWARDS AND SCHOLARSHIPS

SCHOLARSHIP REPRESENTATIVE Jul 2020 – Jul 2021

- German Academic Scholarship Association – Region of Bonn

ADMISSION TO HONORS PROGRAM | BONN UNIVERSITY 2019

- Equivalent to a university-wide Dean's List

GERMAN ACADEMIC SCHOLARSHIP ASSOCIATION 2016 – Present

- Scholarship

LANGUAGES

GERMAN – NATIVE SPEAKER

ENGLISH – C1/C2

FRENCH – B2

TEST SCORES

TOEFL – 118/120

- R 30 / L 30 / S 30 / W 28

GRE – GENERAL TEST

- V 163 / Q 167 / AW 5.0

Aug 2021

Sep 2021