

Jakob R. Jürgens

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EDUCATION

Ph.D. Economics UNIVERSITY OF WISCONSIN-MADISON	Aug 2022 – Present
M.Sc. Economics UNIVERSITY OF BONN	Oct 2020 – Jul 2022
B.Sc. Economics UNIVERSITY OF BONN	Oct 2017 – Jul 2020
B.Sc. Mathematics (not completed) UNIVERSITY OF BONN	Oct 2016 – Jul 2017
Abitur SANKT LEONHARD GYMNASIUM AACHEN	2008 – 2016

RESEARCH & WORK EXPERIENCE

Research Assistant INSTITUTE OF FINANCE AND STATISTICS UNIVERSITY OF BONN	Nov 2020 – Jun 2022
<ul style="list-style-type: none">• Work for Prof. Dr. Lena Janys and Prof. Dr. Joachim Freyberger• High-performance Computing and Parallelization with R and C++• Development of Teaching Material for Econometrics Ph.D. Courses	
Internship GERMAN COUNCIL OF ECONOMIC EXPERTS WIESBADEN	Aug 2020 – Oct 2020
<ul style="list-style-type: none">• GDP Forecasting with data of varying frequency and publication lag• Analysis of Corona Recovery based on Google Mobility Data and high-frequency Electricity Market Data	
Student Assistant INSTITUTE FOR INTERNATIONAL ECONOMIC POLICY UNIVERSITY OF BONN	Apr 2018 – Jun 2020
<ul style="list-style-type: none">• Work for Prof. Dr. Jürgen von Hagen• Assistant to all members of the Institute [scientific and administrative tasks]	

AWARDS AND SCHOLARSHIPS

University of Wisconsin-Madison TWO-YEAR GRADUATE SCHOOL FELLOWSHIP	Awarded in 2022
German Academic Scholarship Foundation REPRESENTATIVE FOR BONN	2020 – 2021
University of Bonn HONORS PROGRAM	2019 – 2022
German Academic Scholarship Foundation SCHOLARSHIP	2016 – Present

PROGRAMMING

- R, Python, C++, C
- Java, Julia (Beginner)
- Rcpp and Parallelization in R
- Using SLURM-based computing clusters

LANGUAGES

German | NATIVE SPEAKER

English | C1/C2

French | B2

PROJECTS

Bugni and Horowitz (2021) Permutation Tests for the Equality of Distributions of Functional Data 2022

- Master's Thesis supervised by Prof. Dr. Dominik Liebl

Basis Choice for Scalar-on-Function Regression with Applications to Near-Infrared Spectroscopy 2022

- Final Project for the Research Module Econometrics & Statistics

Outlier Detection in Sensor Data using Functional Depth Measures 2021

- Final Project for the courses **Microeconometrics** and **Scientific Computing**
- In Cooperation with **Daimler AG**

Comparison of Variable Importance Feature Selection Methods in Continuous Response Random Forest 2021

- Final project for the course **Computational Statistics**

Malicious Intent and Multiple Testing in Regression Discontinuity Estimation 2020

- Bachelor's Thesis supervised by Prof. Dr. Joachim Freyberger

The Effects of Component Permutation on Estimated Impulse Responses in a three-dimensional SVAR[1] Model 2019

- Final Project for the course **Applied Time Series Analysis with R**

Elections, Fashion, Herd Instinct – Mechanisms of collective choice 2018

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

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 Foundation