

# Maximilian Rücker

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## Education

<b>Ulm University</b> <i>PhD in Mathematics</i>	Mar 2023 – today
◦ Research topic: High-Dimensional Panel Data Models (Linear and Non-Parametric models) ◦ Supervisor: Prof. Dr. Michael Vogt	
<b>Ulm University</b> <i>M.Sc. in Mathematics</i>	Mar 2021 – Mar 2023

◦ Thesis: "High-Dimensional Inference with the Lasso."  
◦ Overall Grade: 1.2

**Ulm University**  
*B.Sc. in Business Mathematics*

◦ Thesis: "Fractional Poisson Processes and Fractional Poisson Fields."  
◦ Overall Grade: 1.8

## Working Experience

<b>IHK Ulm</b> Honory worker at the German Chamber of Commerce and Industry (IHK)	June 2021 – today
<b>Hannover Re</b> Intern at Advanced Solutions Germany	Sept 2020 – Nov 2020

## Scientific Activities

<b>Published Paper</b>	Nov 2025
◦ "Estimation and Inference in High-Dimensional Panel Data Models with Interactive Fixed Effects" Quantitative Economics, 2025 (joint work with Oliver Linton, Michael Vogt and Christopher Walsh).	
◦ R-package <code>hdccce</code> available at GitHub.	
<b>Workshop organisation</b> Organisation of a workshop for PhD students in mathematics at Ulm University.	July 2025
<b>University of Cambridge</b> One month research stay at the University of Cambridge supervised by Oliver Linton and seminar talk about "Additive High-Dimensional Panel Data Models with Interactive Fixed Effects."	Mar 2025
<b>29-th International Panel Data Conference (IPDC)</b> Speaker at the IPDC 2024 in Orléans about "Estimation and Inference in High-Dimensional Panel Data Models with Interactive Fixed Effects".	July 2024
<b>R-package</b> R-package <code>LassoNoiseInference</code> available at GitHub for the estimation of the Lasso's effective noise proposed in "Estimating the Lasso's Effective Noise" (2021) by Johannes Lederer and Michael Vogt.	Mar 2023

## Teaching Experience

<b>Teaching assistant</b> Non-parametric statistics. Asymptotic statistics. High-Dimensional statistics.	Oct 2024 -
<b>Scientific assistant</b>	May 2023 - Sept 2024
<b>Student assistant</b> Tutor for the courses: Measure theory, Calculus, Econometrics, Stochastic processes and Probability theory.	Oct 2019 - Mar 2023

## Skills

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**Programming languages**

R, Python, Java and MATLAB.

**Technologies**

LaTeX, GitHub, HTML, CSS and Microsoft Office.