

Maximilian Rücker

📍 Ulm University ✉ maximilian-ruecker@web.de in Maximilian Rücker 🌐 RueckerM

Education

Ulm University <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	
Ulm University <i>M.Sc. in Mathematics</i>	Mar 2021 – Mar 2023
◦ Thesis: "High-Dimensional Inference with the Lasso."	
◦ Overall Grade: 1.2	
Ulm University <i>B.Sc. in Business Mathematics</i>	Oct 2017 – Mar 2021
◦ Thesis: "Fractional Poisson Processes and Fractional Poisson Fields."	
◦ Overall Grade: 1.8	

Working Experience

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

Scientific Activities

Workshop organisation Organisation of a workshop for PhD students in mathematics at Ulm University.	July 2025
Preprint Paper ◦ Submission of the paper "Estimation and Inference in High-Dimensional Panel Data Models with Interactive Fixed Effects" (joint work with Oliver Linton, Michael Vogt and Christopher Walsh). ◦ R-package <code>hdcce</code> available at GitHub.	Nov 2024
29-th International Panel Data Conference (IPDC) Speaker at the IPDC 2024 in Orléans about "Estimation and Inference in High-Dimensional Panel Data Models with Interactive Fixed Effects".	July 2024
R-package 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

Teaching assistant High-Dimensional statistics.	Oct 2024 - Mar 2025
Scientific assistant	May 2023 - Sept 2024
Student assistant Tutor for the courses: Measure theory, Calculus, Econometrics, Stochastic processes and Probability theory.	Oct 2019 - Mar 2023

Skills

Programming languages
R, Python, Java and MATLAB.

Technologies
LaTeX, GitHub, HTML, CSS and Microsoft Office.