Maximilian Rücker

Ulm University maximilian-ruecker@web.de Maximilian Rücker RueckerM

Education

Ulm University Mar 2023 – today
PhD in Mathematics
- Research topic: High-Dimensional Panel Data Models (Linear and Non-Parametric models)
- Supervisor: Prof. Dr. Michael Vogt

Ulm University Mar 2021 – Mar 2023
M.Sc. in Mathematics
- Thesis: "High-Dimensional Inference with the Lasso."
- Overall Grade: 1.2

Ulm University Oct 2017 – Mar 2021
B.Sc. in Business Mathematics
- Thesis: "Fractional Poisson Processes and Fractional Poisson Fields."
- Overall Grade: 1.8

Working Experience

IHK Ulm June 2021 – today
Honory worker at the German Chamber of Commerce and Industry (IHK)

Hannover Re Sept 2020 – Nov 2020
Intern at Advanced Solutions Germany

Scientific Activities

Workshop organisation Organisation of a workshop for PhD students in mathematics at Ulm University. July 2025

Research stay in Cambridge One month research stay in Cambridge supervised by Oliver Linton and seminar talk about "Additive High-Dimensional Panel Data Models with Interactive Fixed Effects." Mar 2025

Preprint Paper Nov 2024
- 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 `hdcce` available at GitHub.

29-th International Panel Data Conference (IPDC) July 2024
Speaker at the IPDC 2024 in Orléans about "Estimation and Inference in High-Dimensional Panel Data Models with Interactive Fixed Effects".

R-package Mar 2023
R-package `LassoNoiseInference` 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.

Teaching Experience

Teaching assistant Oct 2024 - Mar 2025
High-Dimensional statistics.

Scientific assistant May 2023 - Sept 2024

Student assistant Oct 2019 - Mar 2023
Tutor for the courses: Measure theory, Calculus, Econometrics, Stochastic processes and Probability theory.

Skills

Programming languages
R, Python, Java and MATLAB.
Technologies
LaTeX, GitHub, HTML, CSS and Microsoft Office.