

# NIKLAS M. WITZIG

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## RESEARCH INTERESTS

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Structural Behavioral Economics, Topics in Fair and Explainable AI, Machine Learning, Bayesian Inference

## PROJECTS

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**Cognitive Noise and Altruistic Preferences** draft

*single-authored*

Linking altruism choices to cognitive processes via Bayesian decision-making model; Tools: Modelling experimental data with Numpyro and Stan, Estimation of heterogeneous treatment effects with EconML

**Behavioral Time Choices in Speed-Accuracy Tradeoffs** *draft available; soon updated*

*with Alex Dzionara*

Studying determinants of planned vs. implemented time choices; Tools: Modelling experimental data with Numpyro; Bayesian model comparison

**Time Pressure and Strategic Risk in Professional Chess** draft

*with Johannes Carow*

Studying risk-taking of chess players under time pressure; Tools: Predicting *difficulty* in chess based on > 1 Mio. chess games with RCNN (as basis for risk measure), IV approach for exogenous thinking time in WorldCup games

**Trust in Fair Algorithms** *pilot completed*

*with Mattia Cerrato, Marius Koeppel, Alesia Vallenäs*

Identifying reliance on predictions by (non-)fair models in an online experiment based on folktables data, comparison with optimal Bayesian benchmark; Tools: Obtaining (non-)fair predictions by DirectRanker

## EDUCATION

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**Johannes Gutenberg-University, Mainz** 2019 - today

Doctoral Student, *Essays in Behavioral Economics*, Prof. Dr. Daniel Schunk

**Johannes Gutenberg-University, Mainz** 2017 - 2019

M.Sc. International Economics and Public Policy

**Université Catholique de Louvain, Louvain-la-Neuve** 2018 - 2019

Exchange Student, M.Sc. Economics

**Johannes Gutenberg-University, Mainz** 2013 - 2017

Bachelor of Arts Political Science

## WORK EXPERIENCE

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**Johannes Gutenberg-University, Mainz** 2019 - today

Research and Teaching Assistant, Chair of Behavioral and Public Economics

**Johannes Gutenberg-University, Mainz** 2019 - today

Research Unit Interdisciplinary Public Policy (IPP)

Managing Director IPP

## TEACHING

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<b>Tutorial Behavioral Economics (Master), JGU Mainz</b>	Summer 2022-24
<b>Master Theses Supervision, JGU Mainz</b> Topics: Fairness in Machine Learning, Explainable AI, Double Machine Learning and CATE Estimation, Ambiguity Aversion.	Summer 2021-today
<b>Tutorial Principles of Public Economics (Master), JGU Mainz</b>	Winter 2020/21
<b>Tutorial Urban and Regional Economics (Master), JGU Mainz</b>	Summer 2020
<b>Tutor Empirical Research in Economics (Bachelor), JGU Mainz</b>	Summer 2019

## CONFERENCES

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### 2024

4th European Workshop on Algorithmic Fairness (EWAF)

### 2023

MAInC Mainz and Friends AI Conference (Program Committee); IAREP-SABE; ESA World Meeting

### 2022

ESA Europe; Foundations of Utility and Risk (FUR); ASFEE University of Lyon, France

## SUMMER SCHOOLS & WORKSHOPS

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<b>FAIR NHH Spring School Behavioral Economics</b> Rady School of Management, San Diego, CA	2022
<b>27th Visiting Graduate Student Workshop in Experimental Economics</b> IFREE Foundation at Chapman University, CA	2022
<b>Advanced Methods in Behavioral Economics (Head of Organizing Committee)</b> JGU Mainz (Simeon Schudy, Jan Hausfeld & Carina Hausladen)	2021
<b>Causal Machine Learning (Online)</b> ZEW & CDSE Uni Mannheim (Michael Lechner)	2021
<b>Python Programming and Machine Learning for Economists</b> IfW Kiel (Michael Rose)	2020
<b>oTree Workshop</b> University of Usti nad Labem, CZ (Jan Vavra)	2020
<b>Machine Learning in Economics and Business</b> JGU Mainz (Johannes Binswanger)	2019

## SCHOLARSHIPS

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<b>Gutenberg Academy Honors Program</b> Competitive network of approx. 5% best PhD students at JGU Mainz	2022 - today
<b>Peregrinus-Stiftung</b> For stay at UCL Louvain-la-Neuve	2018 - 2019
<b>Deutschlandstipendium</b> JGU Mainz	2017 - 2018

## REFereeING

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**Journal of Economic Behavior and Organization**

## LANGUAGES AND SOFTWARE

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<b>Languages</b>	German (native), English (fluent), French (basic)
<b>Software &amp; Tools</b>	R, Python, Stan, git, L <sup>A</sup> T <sub>E</sub> X

## REFERENCES

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