

# NIKLAS M. WITZIG

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## RESEARCH INTERESTS

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Behavioral Economics, Machine Learning, Explainable + Fair AI

## PROJECTS

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**Cognitive Imprecision and Altruistic Preferences** *draft soon*

Analysis of Experimental Data with Stan, Estimation of Heterogeneous Treatment Effects

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

*with Mattia Cerrato, Marius Koeppel* Comparing Reliance on Predictions by fair/non-fair DirectRanker

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

*with Johannes Carow* Prediction of Difficulty in chess (based on > 1 Mio. chess games) with RCNN, the basis for risk measure of single chess move, IV approach for exogenous thinking time

**Behavioral Time Choices in Speed-Accuracy Tradeoffs** *new draft soon*

*with Alex Dzionara* Analysis of Experimental Data with Numpyro, Bayesian Model Comparison

## EDUCATION

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

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

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

M.Sc. International Economics and Public Policy

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

Exchange Student, M.Sc. Economics

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

Bachelor of Arts Political Science

## WORK EXPERIENCE

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

Research and Teaching Assistant, Chair of Behavioral and Public Economics

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

Research Unit Interdisciplinary Public Policy (IPP)

- Managing Director IPP
- Lab Manager Mainz Behavioral and Experimental Laboratory (MABELLA)

## TEACHING

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**Tutorial Behavioral Economics (Master), JGU Mainz** Summer 2022/23

**Master Theses Supervision, JGU Mainz** Summer 2021-today

Topics: Fairness in Machine Learning, Explainable AI, Ambiguity Aversion

<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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### 2023

MAInC Mainz and Friends AI Conference (Program Committee); IAREP-SABE University of Nice, France; ESA World Meeting University of Lyon, France

### 2022

ESA Europe Meeting University of Bologna, Italy; Foundations of Utility and Risk (FUR) University of Ghent, Belgium; 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 (Organizing)</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> Selected to be among 5% best PhD students at JGU Mainz	2022 - today
<b>Peregrinus-Stiftung</b>	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>	Python, pyMC, oTree, R, Stan, git, L <sup>A</sup> T <sub>E</sub> X, Stata, MS Office

## REFERENCES

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