# NIKLAS M. WITZIG

Chair of Public and Behavioral Economics; Johann-Joachim-Becher-Weg 31 01-102, 55128 Mainz

🌐 nmwitzig@github.io, ✉ niklas.witzig@uni-mainz.de, ⦿ nmwitzig

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## RESEARCH INTERESTS

Behavioral Economics, Machine Learning, Explainable + Fair AI

## PROJECTS

**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, Model Comparison

## EDUCATION

**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

**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

**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

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| **Tutorial Principles of Public Economics (Master), JGU Mainz** | Winter 2020/21 |
| **Tutorial Urban and Regional Economics (Master), JGU Mainz** | Summer 2020 |
| **Tutor Empirical Research in Economics (Bachelor), JGU Mainz** | Summer 2019 |

## CONFERENCES

**2023**

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

## SCHOLARSHIPS

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| **Gutenberg Academy Honors Program**<br>Selected to be among 5% best PhD students at JGU Mainz | 2022 - today |
| **Peregrinus-Stiftung** | 2018 - 2019 |
| **Deutschlandstipendium**<br>JGU Mainz | 2017 - 2018 |

## REFEREEING

**Journal of Economic Behavior and Organization**

## LANGUAGES AND SOFTWARE

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| **Languages** | German (native), English (fluent), French (basic) |
| **Software & Tools** | Python, pyMC, oTree, R, Stan, git, LaTeX, Stata, MS Office |

# REFERENCES

**Prof. Dr. Daniel Schunk**
Chair of Public and Behavioral Economics
Johannes Gutenberg University
+49-6131-39-27297
daniel.schunk@uni-mainz.de

**Prof. Dr. Andrea Lassmann**
Chair of International Economic Policy
Johannes Gutenberg University
+49-6131-39-28546
andrea.lassmann@uni-mainz.de