

## TOBIAS FELIX WERNER

Phone: +49 211 81-14095 ◊ Mail: werner@dice.hhu.de

University of Düsseldorf (DICE) ◊ Universitätsstr. 1, 40225 ◊ Düsseldorf, Germany

Website: tfwerner.com ◊ Github: github.com/ToFeWe

### CURRENT POSITION

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**Doctoral Researcher–Düsseldorf Institute for Competition Economics**

*since 04/2019*

Research interests: Economics of Artificial Intelligence, Competition Economics, Cooperation and Experimental Economics

### EDUCATION

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**Heinrich-Heine-University Düsseldorf, Germany**

*04/2019 - 2023*

Doctoral degree (Dr. rer. pol.) in Economics (expected by April, 2023)

Supervisors: Prof. Dr. Hans-Theo Norman & Prof. Dr. Matthias Hunold

**University of Bonn, Germany**

*10/2016 - 03/2019*

M.Sc. in Economics

**Instituto Tecnológico Autónomo de México, Mexico**

*01/2014 - 06/2014*

Exchange Semester

**University of Cologne, Germany**

*04/2012 - 09/2015*

B.Sc. in Economics (Minor: Political Science)

### WORKING PAPERS AND WORK IN PROGRESS

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**Algorithmic and Human Collusion**

*DICE Discussion Paper No. 372*

**Willingness to volunteer among remote workers is insensitive to the team size** (with Adrian Hiltenbrand and Fabian Winter),

*ZEW Discussion Paper No.22-050*

**What Drives Demand for Loot Boxes? An Experimental Study** (with Simon Cordes and Markus Dertwinkel-Kalt)

*SSRN Link*

**Algorithmic Price Recommendations and Collusion** (with Matthias Hunold)

*Draft in preparation*

**Memory Length in Algorithmic Collusion** (with Bernhard Kasberger, Simon Martin and Hans-Theo Normann)

*Draft in preparation*

### CONFERENCE PRESENTATIONS, INVITED TALKS AND WORKSHOPS

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**2023**

Applied Science Brown Bag at Zalando

**2022**

CRESSE 2022, ESA World 2022, Stellenbosch University (*invited*), MACCI Annual Conference 2022, RGS Conference 2022, Max-Planck-Institute for Human Development

**2021**

ESA Global Meeting 2021, DICE Brown Bag (2x), DICE PhD Research Workshop, HWR Berlin, NBER Young Scholars Workshop on the Economics of Artificial Intelligence

## 2020

Verein für Socialpolitik Jahrestagung 2020, ESA Global Meeting 2020, DICE PhD Research Workshop

## 2019

Max Planck Institute for Research on Collective Goods (*invited*), DICE PhD Research Workshop (2x)

## ADDITIONAL EDUCATION

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**Summer School about the Economics of AI** 2021

Barcelona School of Economics

Topics: Reinforcement learning, pricing algorithms, and recommender systems

**Summer School about the Econometrics for Experimental Economics** 2021

University of East Anglia

Topics: Power analysis, and the estimation of structural models

**Summer School about Bayesian Machine Learning** 2019

Barcelona School of Economics

Topics: High-dimensional regressions, DAGs, and topic modelling

## TEACHING EXPERIENCE

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Programming Experiments in oTree (M.Sc., Ph.D.) 2021

Seminar “Algorithms: Interaction between humans and machines” (M.Sc.) 2021

Seminar “Algorithms & Competition” (M.Sc.) 2020

Digital Economy (TA, B.Sc.) 2019, 2020, 2021, 2022

Co-supervision of several master thesis

## WORK EXPERIENCE

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**Zalando** 08/2022 - 01/2023  
*AI Research Fellowship* *Berlin, Germany*

**Max Planck Institute for Research on Collective Goods** 12/2016 - 03/2019  
*Research Assistant and Intern* *Bonn, Germany*

**AXA Data Innovation Lab** 04/2018 - 08/2018  
*Data Science Intern* *Cologne, Germany*

**Federal Cartel Office (Bundeskartellamt)** 04/2016 - 07/2016  
*Intern* *Bonn, Germany*

**Center for European Economic Research (ZEW)** 01/2016 - 04/2016  
*Research Intern* *Mannheim, Germany*

**DICE Consult** 10/2015 - 12/2015  
*Consulting Intern* *Düsseldorf, Germany*

## RESPONSIBILITIES

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**Elected Representative of the Düsseldorf Economics Ph.D. Students** 10/2020 - 05/2022

## SKILLS

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### Programming languages

Python, R (*Advanced*)

Bash, Javascript/Node.js, Java, Julia, Stata (*Basic*)

### Experimental Economics Frameworks

o-Tree and z-Tree

### Other skills

Git, SQL, Scrum, L<sup>A</sup>T<sub>E</sub>X, MS office, familiar with cloud services (AWS, Azure, and Heroku)

### Experimental Platforms

Prolific, MTurk, Clickworker

### Languages

German (Native), English (Fluent), Spanish (Basic),

Russian (365+ days Duolingo streak)