

BORUI NIKLAS ZHU

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EDUCATION

PhD Economics

Harvard University

2022 – present

Cambridge MA, USA

- Currently a first-year student

MSc Econometrics and Mathematical Economics (EME)

London School of Economics

2020 – 2021

London, United Kingdom

- Graduated with Distinction
- Courses: Advanced Macroeconomics, Advanced Microeconomics, Econometric Analysis, Contracts and Organisations

BSc Economics, minor in Mathematics

University of Mannheim

2016 – 2020

Mannheim, Germany

- Graduated with Distinction (“mit Auszeichnung”)
- Bachelor Thesis: “Inequality and Votes for Extremists: an Analysis of Wuerttemberg in the Inter-War Period”. Empirical work using viticultural terrain features as IV
- Exchange Year 2018-2019 at the National University of Singapore (NUS), modules in Statistics, Economics, and Computer Science

WORK EXPERIENCE

Pre-Doctoral Research Assistant

London School of Economics, Centre for Macroeconomics

Aug 2021 – Aug 2022

London, United Kingdom

- Prof. Benjamin Moll and Prof. Ricardo Reis
- Data work in R and STATA, literature reviews, writing proofs, checking maths in paper drafts; for projects on taxation, inflation, and government debt limits
- Coding in MATLAB for numerical solution and visualisation of general equilibria

Research Assistant

University of Mannheim

May 2020 – Nov 2020

Mannheim, Germany

- Prof. Antonio Ciccone
- Econometric analysis for projects on population dynamics, historical factors of growth and agglomeration externalities
- Coding using R, STATA, Python; QGIS

Intern, Political Department

Embassy of Germany to the United States

Feb 2019 – Mar 2020

Washington, D.C., USA

- Informed foreign ministry officials on positions of key actors in US politics, by monitoring think tank events and congressional hearings on topics of interest to the German government

Intern, Banking Supervision: Risk Analysis

German Central Bank

June 2019 – Sep 2020

Frankfurt, Germany

- Used econometric techniques such as matching and quantile regression to evaluate effects of the G-SIB framework on systemically relevant banks: risk behaviour, balance sheet composition
- Coding using STATA and R, data from SNL, Bloomberg etc.

Research Assistant (part-time)

University of Mannheim

Apr 2018 – Dec 2018

Mannheim, Germany

- Prof. Hans-Peter Grüner
- Programming in R to numerically solve for Perfect Bayesian Equilibria and subsequent welfare analysis of a game theoretical model from Grüner, Tröger (2019)

PROJECTS

Corresponding Author: R-Package "DistributionFitR"

Sep 2019 – Present

- Given univariate data, crawls over chosen or all parametric distributions available on CRAN, identifies parameters and extracts parameter space, and returns best MLE-fits, see: GitHub repository
- Official release: 04/03/2020 on CRAN

TEACHING EXPERIENCE

Teaching Assistant

2017 – 2020

University of Mannheim

Mannheim, Germany

- Class Teacher, Principles of Economics, Fall 2017
- Revision Lecture, Microeconomics A, Summer 2018, 2019, 2020

EXTRACURRICULAR ACTIVITIES

Volunteer

Summer 2020

NHS Vaccination Programme

London, United Kingdom

- Provided steward support at the Covid-19 Mass Vaccination Centre in the Science Museum, South Kensington
- Check-ins, answering questions about vaccine eligibility, interpreting for Russian and Chinese speaking patients

Founding Member

Sep 2017 – Aug 2020

Students' Association for Statistics and Data Science "STADS"

Mannheim, Germany

- Head of Training: initiated a series of expert seminars on topics in computational statistics
- Organised an introductory Python course with over 200 participants, created a dedicated course website linked with the university CAS-login

Voluntary Service

Mar 2016 – Aug 2016

Kulturweit

Kiev, Ukraine

- Volunteering programme offered by the German UNESCO commission jointly with the MFA
- Assisted in teaching German at a Ukrainian state school

SKILLS

Programming: **R**, **STATA** (Proficient), **MATLAB**, **Python** (Intermediate)

Languages: **German** (Native), **English** (Proficient), **Chinese** (Fluent), **Russian** (Beginner)

AWARDS AND HONOURS

German Academic Scholarship Foundation, 2019 - 2021

DAAD Promos Scholarship for Studies Abroad, 2018

Deutschlandstipendium Scholarship, 2016 - 2019