

Curriculum Vitae

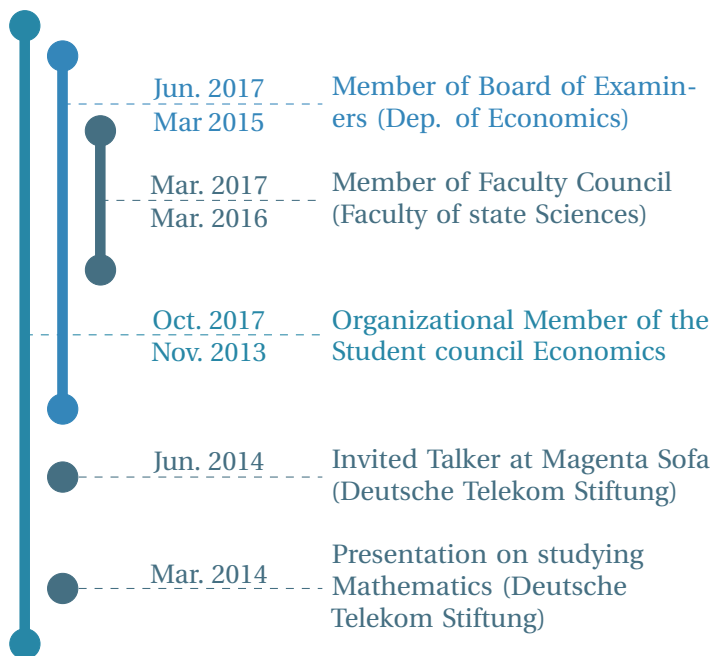
Dennis Oliver Kubitza



Education



Extracurricular Activities



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Personal Information

Given Name Dennis Oliver

Surname Kubitza

Birthday 07.10.1993

Nationality German

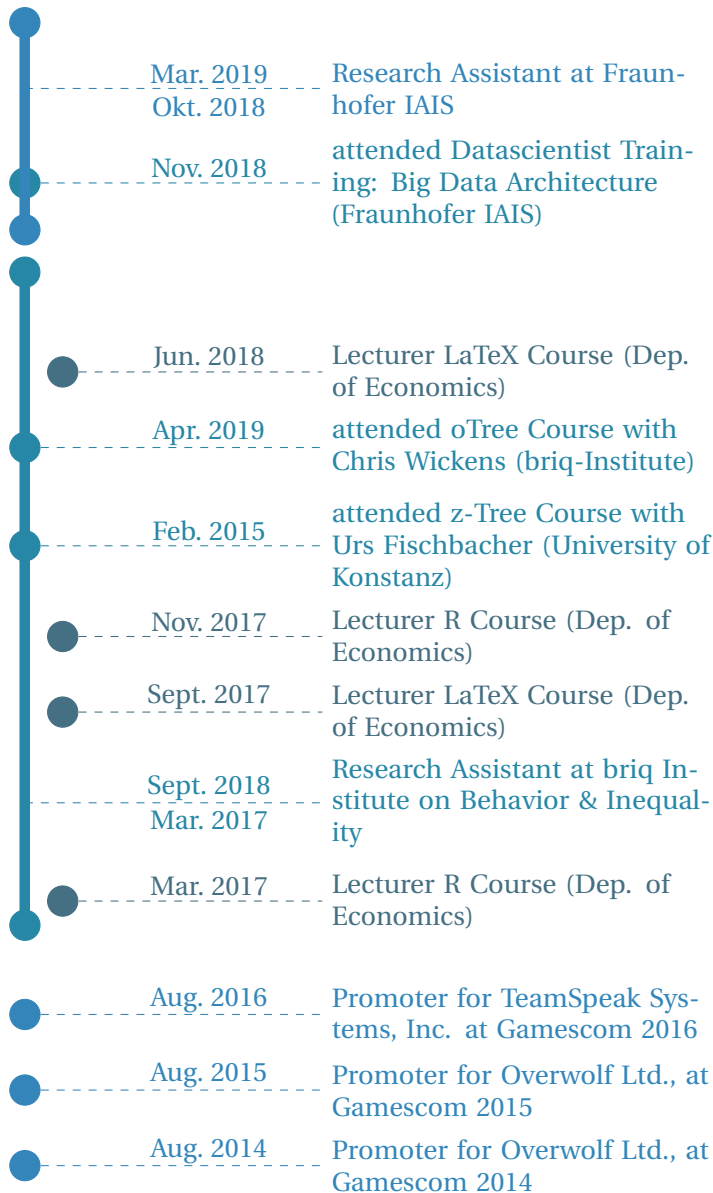
Academic Degrees

M.Sc. Computer Science (est. 2019) with specialization in Intelligent Systems and Information Systems

B.Sc. Economics (2017) with specialization in Statistics, Econometrics and Game Theory

B.Sc. Mathematics (2016) with specialization in Probability Theory and Discrete Optimization

Professional Activities



Mar. 2019 Okt. 2018	Research Assistant at Fraunhofer IAIS
Nov. 2018	attended Datascientist Training: Big Data Architecture (Fraunhofer IAIS)
Jun. 2018	Lecturer LaTeX Course (Dep. of Economics)
Apr. 2019	attended oTree Course with Chris Wickens (briq-Institute)
Feb. 2015	attended z-Tree Course with Urs Fischbacher (University of Konstanz)
Nov. 2017	Lecturer R Course (Dep. of Economics)
Sept. 2017	Lecturer LaTeX Course (Dep. of Economics)
Sept. 2018 Mar. 2017	Research Assistant at briq Institute on Behavior & Inequality
Mar. 2017	Lecturer R Course (Dep. of Economics)
Aug. 2016	Promoter for TeamSpeak Systems, Inc. at Gamescom 2016
Aug. 2015	Promoter for Overwolf Ltd., at Gamescom 2015
Aug. 2014	Promoter for Overwolf Ltd., at Gamescom 2014

Professional Skills

Programming Languages R, Python, LaTeX, SparQL, SQL, Java, Scala, C++, VBA Script, Bash Shell Script

Tools BlazeGraph, Apache Spark, Apache Hadoop, Git, PyCharm, IntelliJ IDEA, RStudio, Postgres, z-Tree, o-Tree, Stata

Languages German, English (C1/C2)

Selected Works and Contributions

rdfKernels for Spark https://github.com/SmartDataAnalytics/MA-INF-4223-DBDA-Lab/tree/WiSe2017_18/projects/project2

rdpermute Stata https://github.com/ganong-noel/rdpermute/blob/master/stata_code/rdpermute.pdf

rdpermute R (Not yet published)

Course Material z-tree <https://denniskubitza.github.io/zTree/>

Course Material R https://www.dropbox.com/sh/7g84ikav0sqhr61/AABh4IXmbNUAn6_pylRKXhIAa?dl=0

Course Material LaTeX <https://github.com/DennisKubitza/LaTeX-Kurs>

briq Institute on Behavior & Inequality

Research Assitant

In March 2017, the briq - Institute on Behavior & Economy [↗](#) recruited me via contacts as a Research Assistant for the implementation of statistical software packages. For 7 months I developed the package `rdpermute` for the archives CRAN (R) and SSC (STATA), an implementation for the statistical test described in "A permutation Test for the Regression Kink Design" [↗](#) (Jäger & Ganong, 2017) . As Simon Jäger left the briq Institute for a position as assistant professor at MIT I had to terminate my work on the project shortly after the first stable versions in Stata and R were developed.

From September 2017 on I started to work under the supervision of Philip Eisenhauer [↗](#) on the evaluation of a high-stakes economic experiment that investigates multi-attribute utility of risk and time on altruism. Because the experimental results did not match any known model I was assisting on the simulations for a new copula model and the preprocessing of the experimental data in Python for further model matching. While the currently used methods are partially published on Github [↗](#) the respective paper (with Armin Falk [↗](#) and Thomas Graeber [↗](#) is still preliminary version.

Professional Training

While I was never involved in the conduction and programming of economic experiments, briq-Institute offered me to participate in a z-tree [↗](#) course at the University of Konstanz lectured by Urs Fischbacher [↗](#) the main developer of zTree in February 2018. In cooperation with briq, I used the obtained knowledge to offer z-tree crash course [↗](#) for Members of briq, the Economic Faculty and IZA, which was conducted from May 2018 until July 2018.

Additional to the z-Tree course I also attended an otree course conducted by Chris Wickens [↗](#) which was conducted at briq Institute in April 2018.

R Course for the Department of Economics

From March 2017 till November 2017 I was lecturing the "Introduction to R" course for the Department of Economics together with Matthias Duch [↗](#) . The 5 day course is offered each semester, financed by the Department of Economics and replaced the former course in Stata. As we had no predecessors, the entire course concept, slides and exercises were arranged by Matthias and me and sold to the department of Economics in 2019.

LaTeX Course for the Department of Economics

After the successful R-Course Matthias Duch and me accepted the offer to also lecture the LaTeX course for the department of Economics, starting September 2017 until June 2018. This 3 day course is offered each semester and was formerly conducted by Max Kirchner [↗](#) . While the original course concept was a crash course version of the LaTeX course for mathematicians, we rearranged focuses, topics and exercises to fit the needs of economists. The material is published at GitHub

Deutsche Telekom Stiftung

My affiliation with the Deutsche Telekom Stiftung [↗](#) started in the 11th class, when I was granted a scholarship for the Start Stipendium [↗](#) , financed by the Deutsche Telekom Stiftung. During the three years of the grant I participated in different weekend courses and summer camps covering topics concerning science, politics and culture. After starting my undergraduate studies the Deutsche Telekom Stiftung invited me to participate as alumnus on two events: The first one was a presentation on studying mathematics at the university, embedded in a weekend seminar concerning study choices. The second one was a Magenta Sofa Talk [↗](#) with former North Rhine-Westphalian minister of education Sylvia Löhrmann where I presented my personal experiences concerning the question if the secondary education in Germany is a sufficient preparation for studying STEM subjects.

M.Sc. Computer Science

In the Winter Term of 2016 I enrolled for the Master of Computer Science, right after the Termination of my B.Sc Mathematics. The reason for deciding to continue my studies in a different subject was the attractive curriculum that connected my former specialization tracks applied mathematics and statistics and could offer me a new viewpoint on my area of interest: Data Science. To intensive my knowledge in this field I specialized mainly in

the track of Intelligent Systems (Data Mining, Knowledge Graph Analysis, Distributed Big Data Analysis, ...) with additional modules in the Information Systems Track (Intelligent Information Systems, Principles of Distributed Systems).

B.Sc. Economics

Prior to my enrollment for Mathematics I already thought about studying in the area of Economics and Business Administration. As the B.Sc Mathematics Curriculum required up to 45 ECTS in a minor subject I took the chance and started studying Economics as my second major subject. My initial areas of interest in Macroeconomics and Business Administration shifted to Microeconomics and Statistics within the first year. Due to this early recognition of my favorite areas, I managed to solemnly concentrate on them after my foundation semesters leading to a total amount of 75 achieved Credits in the statistics track (Foundation Modules, Time Series Methods, Nonparametric Statistics and Stochastic Models) and 60 Credits in Microeconomics (Foundation Modules, Experimental Economics, Auction Theory, Markets and Mechanisms). In the Winter Term of 2016/2017 I submitted my Bachelor Thesis "Nicht-parametrische Reihenschätzer und ihre Konvergenzraten" (Non-parametric Series Methods and their convergence rates) before terminating my Economics studies in the Summer Term 2017.

B.Sc. Mathematics

After terminating my secondary Education in June 2012, I decided for studying mathematics at the University of Bonn. Despite the good reputation, the high variety of courses and limited number of mandatory modules convinced me of this University. In the retrospective this was a lucky advantage as I lacked motivation for any of the theoretical areas. After the second semester I focused mainly on Discrete Mathematics, especially Graph theory (36 ECTS, 3 Course + Lab) and Probability Theory (51 ECTS, 3 Courses + Seminar + Thesis) . My Bachelor thesis "Quantitative und Qualitative Robustheit von Risiko Maßen" (Quantitative and qualitative robustness of Risk measures) was submitted in August 2016, which marked the end of my mathematical studies.

Technical Promotion at Gamescom

Prior to my employment at Institutes, I worked as a Promoter for Overwolf and Teamspeak at the Gamescom. Our task was to inform and motivate Developers to contribute at the Overwolf App Store or to use the TeamSpeak API. While this job didn't contribute anything to my academic career, it provided a huge personal experience as we were forced to inform and excite people of any possible skill level about the usage of these products.

Student Council of Economics

During my economic studies, I volunteered in the Student Council of Economics in different positions: From the Summer Term 2014 until the Winter Term 2016 I was head of the internal communication department and responsible for the IT-Infrastructure and Social Media and remained as member of team in advisory position until the Summer term 2017. From the Summer-Term 2015 until the Summer Semester 2016 I organized events for first-semester Students and from Summer Term 2016 until Winter Term 2017 I engaged as proxy in the Bureau Organization Team. Despite the Organizational activities I tried to represent the interests of Minor Subject Students in Economics and also Students with two Major Subjects, as they were completely unrepresented although stemming a majority of participants in some courses.

Board of Examiners

In March 2015 I was elected as one of the student representatives in the board of examiners and remained in this position until my resignation in June 2017.

Faculty Council

For the Summer Semester 2016 and Winter Term 2016/2017 I was elected as student representative in the student council of Economics. In this year the student council negotiated and established the new examination regulations for Bachelor Students and started negotiations on the examination regulations for Master Students. As I was going to finish my economic studies in the following Summer Semester I did not candidated again.