

Dr. rer. pol. Arne Steinkraus (M.Sc.)

WORK EXPERIENCE

<i>Current</i> APR 2020	MDM MÜNZHANDELSGESELLSCHAFT mbh, Brunswick. <i>Senior Data Scientist</i> Analyzing (big) datasets with econometric and machine learning tools.
<i>Current</i> MAY 2017	I.A. TU BRAUNSCHWEIG and TU DRESDEN <i>Lecturer (secondary employment)</i> Lecture on e.g. Global Risks (Prof. Leßmann, Chair for Economics, esp. International Economics at TU Dresden) and Statistical Learning (Prof. Ludwig, Chair for Economics at TU Braunschweig).
MAR 2020 NOV 2017	TOTO-LOTTO NIEDERSACHSEN GmbH, Hanover. <i>Data Analyst</i> Analyzing (big) datasets with econometric and machine learning tools.
APR 2017 MAY 2014	TU BRAUNSCHWEIG – INSTITUTE OF ECONOMICS, Brunswick. <i>Research and Teaching Assistant</i> Research on empirical and theoretical economic issues and lecture as assistant to Prof. Leßmann.
APR 2014 MAY 2012	TU BRAUNSCHWEIG, Brunswick. <i>Teaching Assistant</i> Lecture as assistant to Prof. Sieg and Prof. Leßmann at the Chair for Economics and to Prof. Spengler at the Chair for Production and Logistics.
SEP 2012 MAR 2010	TEACHING INSTITUTE <i>LERNTEAM</i> , Seesen. <i>Self-Employed</i> Lectured students.

EDUCATION

JUN 2017	Dr. rer. pol. (eq. Ph.D.) in ECONOMICS at TU BRAUNSCHWEIG – INSTITUTE OF ECONOMICS, Thesis: The Green Paradox – Economic Effects from Cradle to Grave, Supervisor: Prof. Christian Leßmann, <i>summa cum laude</i> .
MAR 2015	M.Sc. in INDUSTRIAL ENGINEERING, TU BRAUNSCHWEIG, Brunswick. Field: Mechanical Engineering, Focus: Automotive Engineering and Management, <i>with honors</i> .
JUL 2013	B.Sc. in INDUSTRIAL ENGINEERING, TU BRAUNSCHWEIG, Brunswick. Field: Mechanical Engineering, Focus: Automotive Engineering and Management, <i>with honors</i> .

CONFERENCES and SEMINARS

- 2019 | 2nd Workshop on Geodata and Economics, University of Hamburg, Hamburg.
- 2018 | Workshop on Geodata and Economics, ZEW & TU Braunschweig, Brunswick.
- 2017 | 1st International Symposium on Economics, Finance and Econometrics, Istanbul, (Co-Organizer).
Research Group on Development Economics, Annual Meeting, VfS, Göttingen.
European Public Choice Society, Annual Meeting, Budapest.
- 2016 | 5th Macrotheme Conference, Paris.
10th Workshop on Political Economy, ifo, CESifo, Dresden.
6th Regional Economics Workshop, ifo, Dresden.
39th IAEE International Conference, IAEE at NHH, Bergen.
Research Group on Development Economics, Annual Meeting, VfS, Heidelberg.
- 2015 | 9th Workshop on Political Economy, ifo, CESifo, Dresden.
4th Workshop on Energy Policy, CESifo, Munich.
- 2014 | 8th Workshop on Political Economy, ifo, CESifo, Dresden.

PUBLICATIONS

- The Geography of Natural Resources, Ethnic Inequality and Civil Conflicts, in *European Journal of Political Economy*, Vol. 59, 33-51. Together with Christian Leßmann.
- Investigating the Effect of Carbon Leakage on the Environmental Kuznets Curve Using Luminosity Data, in *Environment and Development Economics*, Vol. 22 (6), 747-770. (Special media impact: Article in nationwide newspaper Zeit: "Wachstum im Grünen", 21/2018, 30, *deutsch*)
- A Synthetic Control Assessment of the Green Paradox – The Role of Climate Action Plans, in *German Economic Review*, Vol. 20 (4), e545-e570.
- Large Scale Infrastructure Investment and Economic Performance – A Case Study of Öresund, in *Applied Economics Letters*, 2018, 1-6. Together with Sandra Achten, Lars Beyer, Antje-Mareike Dietrich, Dennis Ebeling and Christian Leßmann.
- Estimating Treatment Effects with Artificial Neural Networks – A Comparison to Synthetic Control Method, *Economics Bulletin*, 2019.
- Does Carbon Capture and Storage Lock People into Fossil Fuel Use? – A Cradle to Grave Analysis, in *39th IAEE International Conference Proceedings*.
- Does Inequality in Resource Endowments Explain the Resource Curse? Together with Christian Leßmann (Work in Progress).
- Causal Inference in Artificial Neural Networks (Work in Progress).
- »Zero Emission«? CO₂-Emissionen von Elektroautos (*deutsch*), in *ifo Schnelldienst*, 72 (12), 2019, 3-6. Together with Christian Leßmann.
- Die Umwelt-Kuznets Kurve und internationaler Handel (*deutsch*), in *ifo Dresden berichtet* 25 (01), 2018, 29-31. Together with Sandra Achten and Christian Leßmann.

- Kaufprämien für Elektroautos: Politik auf Irrwegen? (*deutsch*), in *ifo Schnelldienst* 69 (11), 2016, 21-26. Together with Antje-Mareike Dietrich and Christian Leßmann.
- Kurz zum Klima: "Carbon Capture and Storage" - was kostet die Emissionsvermeidung? (*deutsch*), in *ifo Schnelldienst* 69 (05), 2016, 51-54. Together with Christian Leßmann.
- Satellitendaten zur Schätzung von Regionaleinkommen – Das Beispiel Deutschland (*deutsch*), in *ifo Dresden berichtet* 22 (06), 2015, 35-42. Together with Christian Leßmann and André Seidel.
- Subsidizing Human Capital to Overcome the Green Paradox - A Demand-Side Approach, in *Journal of Management and Sustainability*, Vol. 6(4), 1-9.

TEACHING

<i>Lectures</i>	Statistical Learning at TU BRAUNSCHWEIG
<i>Master</i>	(WT 2020/21)
<i>Seminars</i>	Applied Econometrics at TU BRAUNSCHWEIG
<i>Master</i>	(WT 2014/15, WT 2015/16, WT 2016/17)
	Environmental and Resource Economics at TU BRAUNSCHWEIG
	(ST 2014, ST 2015, WT 2018/19)
	Economic History at TU BRAUNSCHWEIG
	(ST 2015)
	Transport Economics at TU BRAUNSCHWEIG
	(ST 2016, WT 2019/20)
<i>Lectures</i>	Applied Statistics at FHDW HANNOVER
<i>Bachelor</i>	(ST 2020)
	Public Finance at VWA BRAUNSCHWEIG
	(ST 2020)
	Environmental and Resource Economics at TU BRAUNSCHWEIG
	(WT 2016/17, WT 2017/18)
	Data Analysis with MATLAB at TU BRAUNSCHWEIG
	(Short-Lecture WT 2014/15, WT 2015/2016)
<i>Seminars</i>	Global Risks at ZIS - TU DRESDEN
<i>Bachelor</i>	(ST 2021)
<i>Exercises</i>	Microeconomics at TU BRAUNSCHWEIG
<i>Bachelor</i>	(WT 2013/14, WT 2014/15, WT 2015/16)
	Macroeconomics at TU BRAUNSCHWEIG
	(ST 2014, ST 2015, ST 2016)
<i>Tutorials</i>	Microeconomics at TU BRAUNSCHWEIG
<i>Bachelor</i>	(WT 2012/13, WT 2013/14, WT 2014/15)
	Macroeconomics at TU BRAUNSCHWEIG
	(ST 2013, ST 2014, ST 2015)
	Logistics at TU BRAUNSCHWEIG
	(ST 2012)

GRANTS, HONORS, AWARDS

Pro*Niedersachsen grant for research project „LUMI“ (60,000 EUR, 2 years), 2016.

Best Student Award „Hochschulpreis des VDI 2016“ (*deutsch*).

Deutschlandstipendium (*deutsch*), term 2014/2015.

Merit-based Scholarship of the Department of Mechanical Engineering at TU BRAUNSCHWEIG (term 2014).

Merit-based Scholarship of the TU BRAUNSCHWEIG, term 2010/2011.

REVIEWING ACTIVITIES

World Development, European Journal of Political Economy, International Journal of Disaster Risk Reduction, Journal of Physics, Economics Bulletin.

DATA ANALYTICS SKILLS

advanced | Synthetic Control Method, Matching Techniques, IV-Approaches, Panel Data Analysis, Time Series Analysis, Difference-in-Differences Estimation, Dynamic Regression Models, (Geo-) Regression Discontinuity Design, Semiparametric Regressions, Spatial Lag Models, Random Forests, Causal Trees, Causal Forests, Boosted Trees, Logistic Regressions.

basic | Neural Nets, Support Vector Machines, Bayesian Models.

COMPUTER SKILLS

fluent | Stata, Python, KNIME, ArcGIS, QGIS, Microsoft Office Packages incl. Power BI.

basic | R, SPSS, (My)SQL, MS Azure , C++, MATLAB, Umberto, Vensim, RegioGraph.

PERSONAL INFORMATION

Date of birth | 12th of April, 1990

Marital status | Married

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