



# Prof. Melanie Krause, Ph.D.

*Curriculum Vitae, March 2021*

## Personal Information

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ORCID: 0000-0001-9299-2366  
Nationality: German  
Year of Birth: 1984  
Family: Partner, 1 Daughter (\*2012)

## Current Position

09/2015 – **Junior Professor for Macroeconomics, Hamburg University.**  
today Positive Midterm Evaluation ('Zwischenevaluation') in 08/2018

## Education

08/2008– **Ph.D. in Economics (Summa Cum Laude), Johann-Wolfgang-Goethe**  
12/2014 *Universität Frankfurt.*  
Structured Ph.D. Program with Fields: Econometrics, Macroeconomics  
Ph.D. Thesis: *Econometric Advances in the Analysis of Income Inequality Within and Between Countries*  
09/2005– **Master of Science in Management (Distinction) and Diplôme de Grande**  
09/2008 **Ecole (Félicitations du Jury), ESCP-EAP European School of Management,**  
*London-Madrid-Paris.*  
Multinational program with double degree: 3 countries, 3 languages  
Master's Thesis: *How Higher Moments Affect Portfolio Choice under Prospect Theory*  
10/2003– **Vordiplom (Undergraduate Studies) in Economics with mark 1,4 ('excel-**  
02/2005 **lent'), Rheinische-Friedrich-Wilhelms-Universität Bonn.**  
08/1994– **Abitur (equivalent to A-Level) with mark 1,0 ('excellent'), Städtisches Gym-**  
06/2003 *nasium Rheinbach.*

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## Professional Experience

- 08/2009- **Research Assistant**, *Johann-Wolfgang-Goethe Universität Frankfurt*.  
07/2015 Working on research projects and teaching tutorial groups at the Chair of International Macroeconomics & Macroeconometrics (Prof. Michael Binder, Ph.D.)
- 05/2008- **Student Assistant**, *ESCP-EAP, Paris*.  
07/2008 Working on a research project at the Finance Chair (Prof. Dr. Emmanuel Jurczenko)
- 04/2007- **Intern**, *Commerzbank España, Madrid*.  
07/2007 Working in Risk Management
- 05/2006- **Intern**, *JPMorgan, London*.  
08/2006 Working in Investment Banking, Equity Derivatives
- 04/2005- **Intern**, *PricewaterhouseCoopers, Düsseldorf*.  
06/2005 Working in Advisory Transactions

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## Research

### Research Fields

- Applied Econometrics and Empirical Macroeconomics: Working with Geo-Spatial Data and Machine Learning Methods in
- Economic development
  - Urban economics
  - Regional economics
  - Income inequality

### Research Grants

- 09/2017- **German Research Foundation (DFG) Grant for *Shining (New) Light on Regional Inequality, Convergence and Development***.  
08/2020 Principal investigator, jointly with Richard Bluhm and Christian Lessmann. Total project funding for 3 years (2017-2020): 569,000 Euro (individual share: 185,200 Euro)

### Publications in Peer-Reviewed Journals

- 2021 The Urbanising Force of Global Warming: The Role of Climate Change in the Spatial Distribution of Population (with David Castells-Quintana und Tom McDermott), *Journal of Economic Geography*, Forthcoming
- 2021 Population, Light, and the Size Distribution of Cities (with Christian Düben), *Journal of Regional Science* 61(1), 2021, pp.189-211
- 2020 Rising Mean Incomes for Whom? (with Liang Frank Shao), *PlosOne* 15(12), 2020, e0242803
- 2019 Convergence vs. The Middle Income Trap: The Case of Global Soccer (with Stefan Szymanski), *Applied Economics* 51(27), 2019, pp.2980-2999
- 2017 The Millennium Peak in Club Convergence - A New Look at Distributional Changes in the Wealth of Nations, *Journal of Applied Econometrics* 32(3), 2017, pp.621-642
- 2014 Parametric Lorenz Curves and the Modality of the Income Density Function, *Review of Income and Wealth* 60(4), 2014, pp.905-929

## Working Papers

Top Lights - Bright Cities and Their Contribution to Economic Development (with Richard Bluhm), *CESifo Working Paper 7411*, Revise and Resubmit at *Journal of Development Economics*

The Emperor's Geography - City Locations, Nature and Institutional Optimization (with Christian Düben), *SSRN Working Paper 3713325*, Revise and Resubmit at *Economic Journal*

The Geographical Determinants of Within-City Heterogeneity in Urban Density (with André Seidel), *CESifo Working Paper 8660*

Density, Cities, and Air Pollution: A Global View (with David Castells-Quintana und Elisa Dienesch), *SSRN Working Paper 3735128*

## Work in Progress

Regional Convergence at the County Level: The Role of Commuters (with Sebastian Kripfganz)

Growth and Spatial Inequality (with Richard Bluhm and Christian Lessmann)

## Smaller Notes

Corrigendum to "Elliptical Lorenz Curves" [J. Econom. 40 (1989) 327 - 338], *Journal of Econometrics* 174, 2013, p.44

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## Presentations

### Conference Presentations

- 09/2019 **1st FDZ Ruhr Regional Disparity Workshop**, Essen, Germany
- 08/2019 **59th European Regional Science Congress**, Lyon, France
- 06/2019 **Urban Economics Conference**, Amsterdam, Netherlands
- 11/2018 **12th CESifo Workshop on Political Economy**, Dresden, Germany
- 09/2018 **Jahrestagung des Vereins für Socialpolitik**, Freiburg, Germany
- 08/2018 **58th European Regional Science Congress**, Cork, Ireland
- 05/2018 **Workshop on GeoData and Economics**, Braunschweig, Germany
- 05/2018 **Urban Economics Conference**, Düsseldorf, Germany
- 03/2018 **Royal Economic Society Conference**, University of Sussex, Brighton, UK
- 07/2017 **7th ECINEQ Meeting**, New York City, US
- 09/2016 **Jahrestagung des Vereins für Socialpolitik**, Augsburg, Germany
- 08/2016 **IARIW Conference**, Dresden, Germany
- 08/2016 **EEA-ESEM Congress**, Geneva, Switzerland
- 09/2015 **Jahrestagung des Vereins für Socialpolitik**, Münster, Germany
- 05/2015 **Spring Meeting of Young Economists**, Ghent, Belgium
- 06/2014 **1st Conference of the International Association of Applied Econometrics**, London, UK
- 04/2014 **Spring Meeting of Young Economists**, Vienna, Austria

12/2013 **24th (EC)<sup>2</sup> Conference - Econometric Analysis of Mixed Frequency Data**, Nicosia, Cyprus

09/2012 **Jahrestagung des Vereins für Socialpolitik**, Göttingen, Germany

03/2012 **International Atlantic Economic Society Conference**, Istanbul, Turkey

02/2012 **RGS Doctoral Conference in Economics**, Duisburg, Germany

#### [Seminar Presentations](#)

09/2020 **German Institute for Global and Area Studies (GIGA) Hamburg**, Germany, Seminar in Socio-Economics (online format)

02/2020 **Rijksuniversiteit Groningen**, Netherlands, Research Seminar

11/2019 **Ruhr Universität Bochum**, Germany, Regional Economics Seminar

02/2019 **Helmut-Schmidt-University Hamburg**, Germany, Empirical Research Seminar

06/2018 **University of Cologne**, Germany, Econometrics Seminar

11/2017 **University of Hannover**, Germany, Brown Bag Seminar

08/2017 **Monash University Melbourne**, Australia, Development Economics Seminar

08/2017 **University of Queensland**, Brisbane, Australia, Economics Seminar

08/2017 **Griffith University Gold Coast**, Australia, Economics Seminar

06/2017 **WU Vienna**, Austria, Macroeconomics Seminar

03/2017 **University of Umeå**, Sweden, Economics Seminar

05/2016 **University of Kiel**, Germany, Econometrics Seminar

10/2015 **University of Hamburg**, Germany, Labour Economics Seminar

07/2014 **Goethe University Frankfurt**, Germany, Money and Macro Brown Bag Seminar

11/2013 **Goethe University Frankfurt**, Germany, Money and Macro Brown Bag Seminar

10/2011 **Goethe University Frankfurt**, Germany, Money and Macro Brown Bag Seminar

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#### [Summer/ Winter Schools](#)

01/2014 **9th Winter School on Inequality and Social Welfare Theory**, Alba di Canazei (Dolomites), organized by University of Verona, Italy

08/2013 **New Developments in Panel Methods Summer School** with lectures by Jeffrey M. Wooldridge, Mainz, Germany

06/2011 **The Jerusalem Summer School in Economic Growth**, Jerusalem, Israel

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#### [Conference Organization](#)

05/2019 **Workshop on Geo Data in Economics, Hamburg, Germany.**

Local organizer of the two-day conference with keynote speakers David Weil (Brown University) and Maxim Pinkovskiy (Federal Reserve Bank New York)

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## Seminar Organization

### Hamburg University

#### **Research Seminar in Quantitative Economics.**

Co-Organization in the Winter Semester 2020/21 (online format), Summer Semester 2020 (online format), Winter Semester 2019/20, Summer Semester 2019, Winter Semester 2018/19, Summer Semester 2018, Winter Semester 2017/18, Summer Semester 2017, Winter Semester 2016/17, Summer Semester 2016, Winter Semester 2015/16

#### **Doctoral Seminar in Economics.**

Organization in the Winter Semester 2020/21 (online format), Summer Semester 2020 (online format), Winter Semester 2019/20, Summer Semester 2019, Winter Semester 2018/19, Summer Semester 2018, Winter Semester 2017/18, Summer Semester 2017. Co-Organization in the Winter Semester 2016/17, Summer Semester 2016

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## Teaching

### Hamburg University

#### **Lecturer of Machine Learning Methods in Economics (Master's level).**

Winter Semester 2020/21 (online format)

#### **Lecturer of Applied Time Series and Panel Data Econometrics (Master's level).**

Winter Semester 2018/19, 2017/18, 2016/17

#### **Lecturer of Topics in Urban Economics (Master's level, seminar).**

Summer Semester 2020 (online format)

#### **Lecturer of Economic Growth and Income Distribution (Undergraduate level).**

Summer Semester 2019, 2018, Winter Semester 2016/17, 2015/16

#### **Lecturer of Long-Run Economic Development (Undergraduate level, seminar).**

Summer Semester 2020 (online format), 2016

#### **Lecturer of Applied Econometrics II (Undergraduate level).**

Summer Semester 2016

### Johann-Wolfgang-Goethe-Universität Frankfurt

#### **Discussion session instructor of Macroeconomics I (Undergraduate level).**

Winter Semester 2014/15, 2013/14, 2012/13, Summer Semester 2012

#### **Teaching assistant of tutorial groups in Macroeconomics I (Undergraduate level).**

Winter Semester 2011/12, Summer Semester 2011, 2009

#### **Teaching assistant of the macroeconometrics course International Money and Finance (Master's level).**

Winter Semester 2010/11

#### **Pre-Semester course instructor of Real Analysis (Ph.D. and Research Master level).**

Winter Semester 2010/11

## Thesis Supervision

### Ph.D. Thesis Supervision (Hamburg University)

Ongoing Christian Düben

### Master's Thesis Supervision (Hamburg University)

2021 Narek Mirzoyan

2020 Oyinkansola Osunkoya, Anahit Kirakosyan

2019 Bora Lee, Mitchel Graves, Zhexin Zhang, Selcuk Kirbas

2018 Eva Cordts, Yagmur Kurtoglu

2017 Mengchao Zhang, Adeoye Oyekan, Yan Stegert, Claudia Hernández

2016 Logan Carlson

### Bachelor Thesis Supervision (Hamburg University)

2020 Felix Kintrup, Elisa Stumpf, Benedikt Kretzler, Felicitas Bichowski, Helena Blumenschein, Louisa Kirsten, Kyari Yahaya, Robin Denker

2019 David Andjelkovic, Lennart Dühren, Phuong Duy Ha, Andrés Grabau, Jude-Ismael Ladouceur, Hoshang Hussainy, Jiaxi Chen

2018 Clemens Lehner, Nina Morgenstern, Steven Schlicker, Cheng Huo, Malte Christophersen, Nadine Scherer

2017 Steven Ficht, Alexander Weis, Raphael Layer, Nadjim Sarwary, Arber Mehmeti, Christina Preuße, Niklas Pätzold, Frederik Moorkamp

2016 Tim Wunderlich, Eugen Bill, Tina-Marie Jung, Moritz Lamparter, Olesja Ischanow

## Awards

11/2018 **Nachhaltigkeits-Patin for the Sustainable Development Goal “Decreasing Inequalities” by Hamburg University.**

Official recognition by the university president and 5000 euro funding for sustainability-related projects

08/2014 **Invitation to Participate in the 5th Lindau Nobel Laureate Meeting as Young Economist.**

12/2008 **Premier Prix du Mémoire de Recherche.**

Prize for the best master's thesis of the year (2000 Euro), awarded by Fondation ESCP-EAP

## Refereeing

*Review of Income and Wealth, Journal of Economic Inequality, World Development, Oxford Bulletin of Economics and Statistics, Canadian Journal of Economics, Review of International Organizations, Applied Economics, Finanzarchiv, Statistica Neerlandica, Economies, Sustainability*

## IT Skills

Programming	Python, incl. scikit-learn, SciPy, NumPy, Pandas	<i>Very good</i>
	STATA, inkl. Mata in STATA	<i>Very good</i>
	Matlab	<i>Advanced</i>
	R	<i>Basic</i>
Geo-Data	QGIS	<i>Good</i>
Tables	Excel	<i>Very good</i>
Editor	L <sup>A</sup> T <sub>E</sub> X	<i>Very good</i>
Data Bases	SQL	<i>Basic</i>

## Language Skills

German	<i>Mother Tongue</i>
English	<i>Fluent (written and spoken)</i>
Spanish	<i>Fluent (written and spoken)</i>
French	<i>Fluent (written and spoken)</i>
Norwegian	<i>Fluent (written and spoken)</i>