



Prof. Melanie Krause, Ph.D.

Curriculum Vitae, August 2025

Personal Information

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

Current Position

02/2023 - **University Professor of Sustainable Real Estate and Urban Development,**
today *Leipzig University*

Previous Positions

04/2022 - **Visiting Professor ('Vertretungsprofessorin') of Sustainable Real Estate and**
01/2023 **Urban Development,** *Leipzig University*
09/2015 - **Junior Professor of Macroeconomics,** *Hamburg University*
01/2023 Positive Midterm Evaluation ('Zwischenevaluation') in 08/2018
08/2009- **Research Assistant,** *Johann-Wolfgang-Goethe Universität Frankfurt*
07/2015 At the Chair of International Macroeconomics & Macroeconometrics (Prof. Michael Binder,
Ph.D.)

Education

- 09/2008–
12/2014 **Ph.D. in Economics (Summa Cum Laude)**, *Johann-Wolfgang-Goethe 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–
09/2008 **Master of Science in Management (Distinction) and Diplôme de Grande 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–
02/2005 **Vordiplom (Undergraduate Studies) in Economics with mark 1,4 ('excellent')**, *Rheinische-Friedrich-Wilhelms-Universität Bonn*
- 08/1994–
06/2003 **Abitur (equivalent to A-Level) with mark 1,0 ('excellent')**, *Städtisches Gymnasium Rheinbach*

Research

Research Fields

- Urban and regional economics
- Economic development
- Income inequality

Research Methods

- Applied econometrics
- Machine learning
- Geo-spatial data analysis

Research Grants

- 09/2024–
08/2029 **German Research Foundation (DFG) Research Training Group ECO-N: The Economics of Connected Natural Commons - Atmosphere and Biodiversity**
Principal investigator, jointly with Bartosz Bartkowski, Thomas Bruckner, Nico Eisenhauer, Johannes Quaas, Martin Quaas, Nadja Rüger, Sebastian Sippel, Thomas Steger, Bernd Süßmuth, Ina Tegen, Daniela Thrän, Gregor Weiß, Christian Wirth.
Individual share: approx. 500,000 Euro, total funding volume: approx. 7,000,000 Euro
- 05/2023–
12/2024 **SMWK (Saxon Ministry for Research) Grant to Support High Profile Structural Units Breathing Nature**
Principal investigator, jointly with Johannes Quaas et al.
Individual share: 156,038 Euro, total funding volume: 1,789,213 Euro
- 09/2017–
08/2020 **German Research Foundation (DFG) Grant for Shining (New) Light on Regional Inequality, Convergence and Development**
Principal investigator, jointly with Richard Bluhm and Christian Lessmann. Individual share: 185,200 Euro, total funding volume: 569,000 Euro

Publications in Peer-Reviewed Journals

- 2025 Regional Dependencies and Local Spillovers: Insights from Commuter Flows (with Sebastian Kripfganz), *Journal of Regional Science* 65(3), 2025, pp.565-585
- 2024 Unlocking Neighborhood Density (with André Seidel), *Journal of Urban Economics* 144, 2024, article 103708
- 2023 The Emperor's Geography - City Locations, Nature and Institutional Optimization (with Christian Düben), *Economic Journal* 133, 2023, pp.1067-1105
- 2022 Top Lights - Bright Cities and Their Contribution to Economic Development (with Richard Bluhm), *Journal of Development Economics* 157, 2022, article 102880
- 2021 Air Pollution in an Urban World: A Global View on Density, Cities, and Emissions (with David Castells-Quintana and Elisa Dienesch), *Ecological Economics* 189, 2021, article 107153
- 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* 21(4), 2021, pp.531-556
- 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

Headwind in Sight? - Wind Turbine Visibility Spillovers and Support for Renewable Energy Policy (with Vincent F. Stegmaier), *Revise & Resubmit at Journal of Environmental Economics and Management*

Unraveling a Vicious Cycle: The Interplay Between Extreme Weather Events, Urban Expansion, and Deforestation (with Leonie Ratzke and Sebastian Sippel), *SSRN Working Paper 4848040, Revise & Resubmit at Journal of the Royal Statistical Society: Series A*

Work in Progress

Bright and Green? A Global View on Density and the Trade-Off Between Economic Activity and Urban Greenness for over 1000 Cities (with Konstantin Reisner and David Castells-Quintana)

Zeroing in on the Zero Waste City (with Jane Torbert)

With Open Eyes: Valuing Visual Perception of Neighborhood Aesthetics (with Vincent F. Stegmaier)

The Path of Pollution - Tracing Historical Drivers of Inequality in German Cities (with Anna Hanitzsch)

Smaller Notes and Contributions

2024 A Belowground Perspective on the Nexus between Biodiversity Change, Climate Change, and Human Well-Being (with Nico Eisenhauer, Karin Frank, Alexandra Weigelt, Rémy Beugnon, Katja Liebal, Miguel Mahecha, Martin Quaas, Johannes Quaas & 38 further co-authors, *Journal of Sustainable Agriculture and Environment* 3(2), 2024, e212108

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

Presentations

Conference Presentations

- 08/2025 **EEA Conference**, Bordeaux, France
- 06/2025 **5th Workshop on Urban and Regional Economics**, Bogotá, Colombia
- 10/2024 **Verein für Socialpolitik - Standing Committee on Regional Theory and Policy**, Cologne, Germany
- 08/2024 **63th European Regional Science Congress**, Terceira, Portugal
- 09/2023 **Annual Meeting of the Verein für Socialpolitik**, Regensburg, Germany
- 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 **Annual Meeting of the Verein 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 **Annual Meeting of the Verein für Socialpolitik**, Augsburg, Germany
- 08/2016 **IARIW Conference**, Dresden, Germany
- 08/2016 **EEA-ESEM Congress**, Geneva, Switzerland
- 09/2015 **Annual Meeting of the Verein 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)² Conference - Econometric Analysis of Mixed Frequency Data**, Nicosia, Cyprus
- 09/2012 **Annual Meeting of the Verein für Socialpolitik**, Göttingen, Germany
- 03/2012 **International Atlantic Economic Society Conference**, Istanbul, Turkey
- 02/2012 **RGS Doctoral Conference in Economics**, Duisburg, Germany

Seminar Presentations

- 05/2025 **University of Galway**, Ireland, Economics Research Seminar
- 04/2024 **University of Hohenheim**, Germany, Economics Research Colloquium
- 04/2023 **Technical University Dresden**, Germany, Economics Research Colloquium
- 01/2023 **Free University Berlin**, Germany, Economics Research Seminar
- 11/2022 **Universidad Autónoma de Barcelona**, Spain, Economics Research Seminar
- 04/2021 **Ifo Institute Munich**, Germany, Digital Transformation and Innovation Seminar (online format)
- 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

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

Conference Organization

- 06/2024 **17th Bamberg-Halle-Jena-Leipzig Workshop on Empirical Microeconomics / Applied Microeconometrics, Leipzig, Germany**
Local organizer of the one-day conference
- 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)

Seminar Organization

Leipzig University

- 04/2023 - **Economics Research Seminar**
today Co-Hosting of the Seminar

Hamburg University

- 10/2015- **Research Seminar in Quantitative Economics**
03/2022 Co-Hosting of the Seminar
- 04/2016- **Doctoral Seminar in Economics**
03/2022 Hosting of the Seminar

Teaching

Leipzig University

Big Data and Smart Cities (Master's level)

Summer Semester 2025, 2024, 2023, 2022

Socio-Economic Issues of Urban Development (Master's level)

Winter Semester 2025/24, 2023/24, 2022/23

Introduction to Urban Economics (Undergraduate level)

Summer Semester 2025, 2024, 2023, 2022

Economic Growth, Income Distribution, Sustainability (Undergraduate level)

Winter Semester 2025/24, 2023/24, 2022/23

Hamburg University

Topics in Urban Economics (Master's level, seminar)

Winter Semester 2021/22 (online format), Summer Semester 2020 (online format)

Machine Learning Methods in Economics (Master's level)

Winter Semester 2020/21 (online format)

Applied Time Series and Panel Data Econometrics (Master's level)

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

Economic Growth and Income Distribution (Undergraduate level)

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

Long-Run Economic Development (Undergraduate level, seminar)

Summer Semester 2020 (online format), 2016

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

[Rheinische-Friedrich-Wilhelms-Universität Bonn](#)

Teaching Assistant of Production Theory (Undergraduate level)

Winter Semester 2004/05

Thesis Supervision

[Ph.D. Thesis Supervision](#)

Leipzig University

Ongoing Vincent F. Stegmaier, Jane Torbert, Anna Hanitzsch

Hamburg University

2017-2025 Christian Düben

[Master's Thesis Supervision](#)

Leipzig University

2025 Lena Parragi, Robert Bunsen, Antonia Pfaff

2024 Janne Bergmann, Anna Hanitzsch, Angelina Kucksdorf, Mauricio Linge

2023 Nikol Kövesi, Kerstin Hoffmann

Hamburg University

2022 Svetlana Prokhorchik

2021 Narek Mirzoyan, Bohdan Kostiv, Alejandro Parra Cárdenas, Avery Wehner, Elena Storti, Oxana Iakovleva

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

Leipzig University

- 2025 Vladislav Svyechkin, Mirijam Willamowski, Tom Vogel, Richard Döring, Kira Hertig
- 2024 Friederike Werner, Caroline Engel, Jonas Magirius
- 2023 Ngoc Anh Ha, Daniel Schöck

Hamburg University

- 2022 Gunay Abdinova, Ashwin Fernandes, Alina Westphal
- 2021 Fawad Ahmad Bajwa, Salome Last
- 2020 Felix Kintrup, Elisa Stumpf, Benedikt Kretzler, Felicitas Bichowski, Helena Blumen-schein, 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 Christo-phersen, 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

Refereeing

Funding Institutions and Research Funds

Deutsche Forschungsgemeinschaft, Sveriges Riksbankens Jubileumsfond, Mercator Research Center Ruhr

Academic Journals

American Economic Review: Insights, Economic Journal, Journal of the Association of Environmental and Resource Economists, Review of Income and Wealth, Journal of Economic Inequality, World Development (2x), Oxford Bulletin of Economics and Statistics (2x), Canadian Journal of Economics, Journal of International Forecasting, Journal of Comparative Economics, Remote Sensing, Journal of Urban Affairs, Review of International Organizations, Applied Economics, Finanzarchiv, Statistica Neerlandica, Economies, Sustainability

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 a 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

Machine Learning Course Certificates

- 02/2021 - **Natural Language Processing Specialization**, *DeepLearning.AI via Coursera*
- 06/2021 Course 4: Natural Language Processing with Attention Models
Course 3: Natural Language Processing with Sequence Models
Course 2: Natural Language Processing with Probabilistic Models
Course 1: Natural Language Processing with Classification and Vector Spaces

IT Skills

Programming	Python, incl. SciPy, NumPy, Pandas, scikit-learn, TensorFlow	<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 ^A T _E X	<i>Very good</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>