CURRICULUM VITAE

JOHANNES BRUMM

CONTACT INFORMATION

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ACADEMIC POSITIONS

10/2026 – Professor (W3) of Macroeconomics and Applied Economics
Department of Economics and Business, Goethe University Frankfurt

2016 – 26 Professor (W3) of Macroeconomics
Department of Economics and Management, Karlsruhe Institute of Technology (KIT)
On full-time parental leave for 30 months in total

2011 – 16 Senior Research Associate in Financial Economics,
Department of Banking and Finance, University of Zurich

VISITING POSITIONS

2021 Visiting Scholar, Department of Economics, Harvard University

2018 – 20 Visiting Scholar, Department of Economics, Boston University

EDUCATION

2011 Doctorate in Economics (Dr. rer. pol.), summa cum laude, University of Mannheim
Advisors: Tom Krebs, Felix Kubler

2010 Visiting Researcher, University of Zurich (4 months)

2009 *ENTER* Exchange Student, Stockholm School of Economics (6 months)

2007 Diploma in Mathematics (Dipl.-Math.), with Distinction, LMU Munich
Advisor: Damir Filipovic

2004 – 05 Exchange Student, Balliol College, Oxford University (one academic year)

2003 Intermediate Diploma in Philosophy, LMU Munich

2001 – 07 Scholarships by Stiftung Maximilianeum and Studienstiftung des dt. Volkes

2000 A-levels (Abitur) at Friedrich-Koenig-Gymnasium Würzburg, Grade: 1.0

RESEARCH FIELDS

Primary Macroeconomics, Computational Economics

Secondary Public Economics, Financial Economics, Economic Theory

JOURNAL PUBLICATIONS

2026 Public Debt in Calibrated OLG Models: Fiscal Arithmetic versus Welfare Analysis (with Jakob Hußmann), ***Journal of Monetary Economics***, Volume 162, September 2026

2024 When Interest Rates Go Low, Should Public Debt Go High? (with Xiangyu Feng, Laurence Kotlikoff, and Felix Kubler), ***AEJ: Macroeconomics***, Volume 16(4), 432-468, October 2024

2023 Re-use of Collateral: Leverage, Volatility, and Welfare (with Michael Grill, Felix Kubler, and Karl Schmedders), ***Review of Economic Dynamics***, Volume 47, 19-46, January 2023

2022 Are Deficits Free? (with Xiangyu Feng, Laurence Kotlikoff, and Felix Kubler), ***Journal of Public Economics***, Volume 208, 111-124, April 2022

2019 Global Value Chain Participation and Current Account Imbalances (with Georgios Georgiadis, Johannes Gräb, and Fabian Trottner), ***Journal of International Money and Finance***, Volume 97, 111-124, October 2019

2017 Using Adaptive Sparse Grids to Solve High-Dimensional Dynamic Models (with Simon Scheidegger), ***Econometrica***, Volume 85(5), 1575-1612, September 2017

Recursive Equilibria in Dynamic Economies with Stochastic Production (with Dominika Kryczka and Felix Kubler), ***Econometrica***, Volume 85(5), 1467-1499, September 2017

Reform Support in Times of Crisis: The Role of Family Ties (with Elias Brumm), ***Economic Inquiry***, 55(3), 1416–1429, July 2017

2015 Scalable High-Dimensional Dynamic Stochastic Economic Modeling (with Dmitry Mikushin, Simon Scheidegger, and Olaf Schenk), ***Journal of Computational Science***, 11, 12–25, November 2015

Margin Regulation and Volatility (with Michael Grill, Felix Kubler, and Karl Schmedders), ***Journal of Monetary Economics***, 75, 54–68, October 2015

Collateral Requirements and Asset Prices (with Michael Grill, Felix Kubler, and Karl Schmedders), ***International Economic Review***, 56(1), 1–25, February 2015

2014 Computing Equilibria in Dynamic Models with Occasionally Binding Constraints (with Michael Grill), ***Journal of Economic Dynamics and Control***, 38, 142–160, January 2014

OTHER PUBLICATIONS

2022 Sparse Grids for Dynamic Economic Models (with Christopher Krause, Andreas Schaab, and Simon Scheidegger), ***Oxford Research Encyclopedia of Economics and Finance***, November 2022

2020 Leveraging Posterity's Prosperity? (with Laurence Kotlikoff and Felix Kubler), ***AEA Papers and Proceedings***, 110, 152–156, May 2020

2017 Computing Equilibria in Dynamic Stochastic Macro-Models with Heterogeneous Agents (with Felix Kubler and Simon Scheidegger), ***Advances in Economics and Econometrics: Theory and Applications (Eleventh World Congress)***, November 2017

WORKING PAPERS & WORK IN PROGRESS

Active WPs

Tensor-Train Approximation for High-Dimensional Economic Models (with Jakob Hußmann), Revise and Resubmit at ***Econometrica***

The Global Life-Cycle Optimizer – Analyzing Fiscal Policy's Potential to Dramatically Distort Labor Supply and Saving (with Laurence Kotlikoff, Christopher Krause, and Joshua Zanger)

Mastering Stochastic OLG Models in Continuous Time (with Yves Achdou and Lukas Frank)

In Progress

Sovereign Debt Dynamics in the Euro-Zone: The Differential Impact of a Common Currency (with Luca Pegorari)

Are We Locking the Poor into Poverty? (with Alan Auerbach, Laurence Kotlikoff, and Victor Ye)

Optimal Debt to GDP: A Quantitative Theory (with Jakob Hußmann)

Sharing Demographic Risk via Social Security? (with Henriette Kissling)

Older WPs

Entrepreneurial Risk, Collateral Constraints, and Macroeconomic Fluctuations

Applying Negishi's Method to Stochastic Models with Overlapping Generations (with Felix Kubler)

LECTURES

Undergraduate

The Digital Economy: Micro and Macro Perspective, KIT, 2024 & 2025 & 2026
Computational Macroeconomics, KIT, 2024 & 2025
VWL II: Makroökonomie, lecture (approx. 500 students), KIT, 2017 & 2023 & 2025 & 2026
Macroeconomic Theory, lecture, KIT, 2021/22 – 2024/25

Graduate

Dynamic Macroeconomics, lecture, KIT, 2020/21 – 2024/25
Advanced Topics in Economic Theory, KIT, 2017/18 & 2021 & 2022 & 2024 & 2025
Advanced Game Theory, KIT, 2016/17
Macro-Finance, University of Zurich, 2013 & 2014

Postgraduate

Global Solution Methods for Macro, guest lecture at Harvard University, 2021
Computational Methods for Macro, Boston University, 2019
Projection Methods, Zurich Initiative on Computational Econ., 2016 & 2017
Recursive Methods, University of Zurich, 2013

Professional

Global Solution Methods, 4 one-week lectures, Central Bank of Colombia, 2014 – 17

PRESENTATIONS

Conferences

VfS Standing Field Committee Macroeconomics, Heidelberg, 2026; Deep Learning for Dynamic Stochastic Models, Turin, 2025; Theories and Methods in Macroeconomics (T2M), Amsterdam, 2024; Mannheim Economics Alumni Symposium, 2023; Society for Economic Dynamics (SED), Minneapolis, 2021; Econometric Society and Bocconi University Virtual World Congress (ESWC), 2020; Computing in Economics and Finance (CEF), Ottawa, 2019; VfS Standing Field Committee Economic Theory, Berlin, 2019; Econometric Society

European Meeting (ESEM), Geneva, 2016; Dynare Conference, Brussels, 2015; European Economic Association (EEA), Mannheim, 2015; Econometric Society World Congress (ESWC), Montreal, 2015; ESEM, Toulouse, 2014; Stanford Institute for Theoretical Economics (SITE), Stanford, 2014; Society for the Advancement of Economic Theory (SAET), Paris, 2013; CEF, Vancouver, 2013; SED, Seoul, 2013; Quantitative Society for Pensions and Saving (QSPS), Utah State University, 2013; Cologne Workshop on Macroeconomics, University of Cologne, 2012; ESEM, Malaga, 2012; EEA, Malaga, 2012; European Finance Association (EFA), Copenhagen, 2012; SED, Cyprus, 2012; SAET, Faro, 2011; ESWC, Shanghai, 2010; CEF, London, 2010; SAET, Ischia, 2009

Seminars University of Potsdam, 2025; Goethe University Frankfurt, 2025; University of Luxembourg, 2024; CERGE-EI Prague, 2023; University of Zurich, 2023; University of Würzburg, 2022; Goethe University Frankfurt, 2022; European Central Bank, 2021; International Monetary Fund, 2021; Boston University, 2018; University of Heidelberg, 2018; University of Bonn, 2016; Goethe University Frankfurt, 2016; Federal Reserve Bank of St. Louis, 2015; Karlsruhe Institute of Technology, 2015; University of Basel, 2015; University of Konstanz, 2015; University of Cologne, 2015; Paris School of Economics, 2014; University of St. Gallen, 2014; Goethe University Frankfurt, 2014; Oesterreichische Nationalbank, Vienna, 2012

Recent Discussions ECB Final Conference of the Research Task Force on Heterogeneity in Macroeconomics and Finance, Frankfurt, 2024; ECB-IMF-IMFER Conference: Global Challenges and Channels for Fiscal and Monetary Policy, Frankfurt, 2024

MAJOR GRANTS

2022 - 28 ERC Starting Grant of approx. 1.5 Mio. Euro for the project SOLG for Policy

PROFESSIONAL ACTIVITIES

Member VfS Standing Field Committee for Macroeconomics (since 2026), VfS Standing Field Committee for Economic Theory (since 2019)

Referee American Economic Review: Insights, Econometrica, Economic Theory, European Journal of Political Economy, International Economic Review, Journal of Economic Growth, Journal of Economic Theory, Journal of Economic Dynamics and Control, Journal of Mathematical Economics, Journal of Population Economics, Macroeconomic Dynamics, Operations Research, Quantitative Economics, Review of Economic Studies, Review of Financial Studies, Theoretical Economics

October 2026