

## CURRICULUM VITAE

# JOHANNES BRUMM

### CONTACT INFORMATION

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### ACADEMIC POSITIONS

*since 2016* Full Professor, Chair of Macroeconomics  
Institute of Economics (ECON), KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT)  
On parental leave for large parts of 2018 – 2020

*2011 – 16* Senior Research Associate in Financial Economics,  
Department of Banking and Finance, UNIVERSITY OF ZURICH

### VISITING POSITIONS

*2021* Department of Economics, HARVARD UNIVERSITY

*2018* Department of Economics, BOSTON UNIVERSITY

### EDUCATION

*2011* Doctorate in Economics (Dr. rer. pol.), summa cum laude, UNIVERSITY OF MANNHEIM  
Advisor: Tom Krebs

*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 Finance, Financial Economics, General Equilibrium Theory

## JOURNAL PUBLICATIONS

- 2022 Are Deficits Free? (with Xiangyu Feng, Laurence Kotlikoff, and Felix Kubler), *Journal of Public Economics*, Volume 208, 111-124, April 2022
- Re-use of Collateral: Leverage, Volatility, and Welfare (with Michael Grill, Felix Kubler, and Karl Schmedders), forthcoming in *Review of Economic Dynamics*
- 2019 Global Value Chain Participation and Current Account Imbalances (with Georgios Georgiadis, Johannes Gräßl, 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

## REVISE &amp; RESUBMITS

- 2022 When Interest Rates Go Low, Should Public Debt Go High? (with Xiangyu Feng, Laurence Kotlikoff, and Felix Kubler), R&R at *AEJ: Macroeconomics*

## OTHER PUBLICATIONS

- 2022 Sparse grids for dynamic economic models (with Christopher Krause, Andreas Schaab, and Simon Scheidegger), forthcoming in *Oxford Research Encyclopedia of Economics and Finance*
- 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

## LECTURES

- Undergraduate* VWL II: Makroökonomie, lecture (approx. 500 students), KIT, 2017
- Macroeconomic Theory, lecture, KIT, 2021/22

<i>Graduate</i>	Dynamic Macroeconomics, lecture, KIT, 2020/21 & 2021/22 Advanced Topics in Economic Theory, KIT, 2017/18 & 2021 & 2022 Advanced Game Theory, KIT, 2016/17 Macro-Finance, UNIVERSITY OF ZURICH, 2013 & 2014
<i>Postgraduate</i>	Global Solution Methods for Macro, guest lecture at HARVARD UNIVERSITY, 2021 Projection Methods, ZURICH INITIATIVE ON COMPUTATIONAL ECON., 2016 & 2017 Recursive Methods, UNIVERSITY OF ZURICH, 2013
<i>Professional</i>	Global Solution Methods, 4 one-week lectures, CENTRAL BANK OF COLOMBIA, 2014 – 17

#### PRESENTATIONS

<i>Conferences</i>	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; German Economic Association: Committee for 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; Society for Economic Dynamics (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
<i>Seminars</i>	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

#### GRANTS

2021 - 26	ERC Starting Grant of approx. 1.5 Mio. Euro for the project SOLG for Policy
2014 - 16	Two Grants of 9 Mio Core Hours each at the SWISS NATIONAL SUPERCOMPUTING CENTER
2014 - 17	Grant from the BILATERAL ASSISTANCE AND CAPACITY BUILDING FOR CENTRAL BANKS PROGRAM at the GRADUATE INSTITUTE IN GENEVA for Teaching at the CENTRAL BANK OF COLOMBIA

#### PROFESSIONAL ACTIVITIES

<i>Referee</i>	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, Operations Research, Quantitative Economics, Review of Economic Studies, Review of Financial Studies
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August 15, 2022