

Moritz A. Roth

Curriculum Vitae

Banco de España
ADG International Affairs
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Work Experience

- 09|17 - **Banco de España**; Madrid, Spain
Economist | ADG International Affairs, International Economics Division
- Economic Research and Modelling in the Global Economic Analysis Unit
- 09|16 – 08| 17 **European Central Bank**; Frankfurt am Main, Germany
PhD Trainee | DG Economics, Output and Demand, Maarten Dossche
- Research project on the distributional effects of low interest rates
- 07|14 - 10|14,
03,11,12|15 **Deutsche Bundesbank**; Frankfurt am Main, Germany
PhD Intern | Research Centre, Mathias Hoffmann, Sven Blank
- Wrote joint research project on the international diversification benefits for a domestic investor through holding shares of domestic multinationals.
- 11|14 **European University Institute**; Florence, Italy
Research Assistant | EUI Economics Department, Arpad Abraham
- 05|11 - 07|11 **Swiss Capital Alternative Investments AG**; Zürich, Switzerland
Intern | Asset Management, Thomas Ellenberger
- Developed and produced the quarterly investment outlook for the company's investment strategy committee using data from Bloomberg.
- 01|11 - 04|11 **Deutsche Bank AG**; Frankfurt am Main, Germany
Intern | Deutsche Bank Research, Economic and European Policy Affairs, Barbara Böttcher
- Wrote 'SMEs in the Netherlands – making a difference', a Deutsche Bank Research Briefing published on www.dbresearch.com in April 2011.

Education

- 09|11 – 11|16 **European University Institute**; Florence, Italy
Ph.D. in Economics
Thesis: Three Essays in International Macroeconomics
Supervisors: Arpad Abraham and Andrea Mattozzi

- 09|11 – 09|12 **European University Institute**; Florence, Italy
M. Res. in Economics
- 09|09 – 09|10 **Warwick University**; Coventry, United Kingdom
M. Sc. in Economics with Distinction
Thesis: Finding an Optimal Bailout Mechanism for a Monetary Union
- 09|06 – 06|09 **University of Mannheim**; Mannheim, Germany
B. Sc. in Economics
Thesis: An Investigation of Labour Earnings in Urban Ghana
ERASMUS exchange: 09|08 - 01|09 University of Copenhagen, Denmark

Fields of Interest

International Macroeconomics, Financial Economics, International Trade, Macroeconometrics, Computational Economics

Research

International Co-Movements in Recessions [Job Market Paper]

Business cycle correlations are state-dependent and higher in recessions than in expansions. In this paper, I suggest a mechanism to explain why this is the case. For this purpose, I build an international real business cycle model with occasionally binding constraints on capacity utilization which can account for state-dependent cross-country correlations in GDP growth rates. The intuition is that firms can only use their machines up to a capacity ceiling. Therefore, in booms the growth of an individual economy can be dampened when the economy hits its capacity constraint. This creates an asymmetry that can spill-over to other economies, thereby creating state-dependent cross-country correlations in GDP growth rates. Empirically, I successfully test for the presence of capacity constraints using data from the G7 advanced economies in a Bayesian threshold autoregressive (T-VAR) model. This finding does not only support capacity constraints as a prominent transmission channel of cross-country GDP asymmetries in recession compared to expansions, it also supports the benchmark calibration of the theoretical model with tradable intermediary goods being complementary to a certain degree.

Foreign Direct Investment and the Equity Home Bias Puzzle

(joint with Sven Blank and Mathias Hoffmann, both Deutsche Bundesbank)

The vast theoretical literature trying to explain the widely observed equity home bias disregards internationally active firms. In a DSGE model that features the endogenous choice of firms to become internationally active through either exports or foreign direct investment (FDI), we find that the optimal equity holdings of agents are biased towards domestic firms. Our finding indicates that international diversification is not as bad as empirical measures of the equity home bias suggest.

Wealth Distribution, Heterogeneous Bond Holdings and Cross-Country Bailout Incentives

Within a monetary union the sovereign bond markets are strongly interlinked across the member countries, as the most recent sovereign debt crisis in the European Monetary Union shows. At the same time wealth is distributed unequally across households in the individual member countries. This paper investigates how these two observations influence the incentives of governments to bail out other member countries in situations in which these countries prefer to default on their debt obligations instead of repaying them fully. I build a model in which heterogeneous household wealth leads to disperse holdings of sovereign debt within and across countries. Because the utilitarian governments value consumption equality across households, I find that the bailout incentive of the domestic government is the highest if the domestic households hold similar amounts of a distressed foreign government bond. Consequently, the domestic country can refuse to bail out a defaulting foreign country if the domestic holdings of distressed foreign government bonds are relatively unequal across domestic households. These findings have important implications for the European debt crisis.

Policy Research

SMEs in the Netherlands – Making a difference

Report on the economic situation and the future outlook for small- and medium-sized enterprises (SMEs) in the Netherlands. The analysis includes the global economic environment, the size of the Dutch SME sector in comparison to other European countries, their international activities and their financing. Published as Deutsche Bank Research Briefing on www.dbresearch.com.

Additional Training

- 06|17 **Machine Learning by Stanford University on Coursera**
MOOC Course Certificate | [Coursera.org](https://www.coursera.org)

- 09|14 **Heterogeneous Agent Models**
 - Bundesbank Workshop taught by Prof. Michael Reiter

- 02|14 **Zürich Initiative on Computational Economics (ZICE 14)**
 - Winter School organized by Ken Judd, Felix Kübler and Karl Schmedders

- 11|13 **Parallel and GPU Computing in Matlab**
 - Training Course by MathWorks

- 07|13 **Summer School on Computational Macroeconometrics (SEEC 13)**
 - Summer Course on Applied Macroeconometrics using Matlab

Scholarships and certificates

06 14	Teacher Training Certificate Teaching Certificate European University Institute
09 11 –	German Academic Exchange Service (DAAD) PhD Scholarship European University Institute
09 08 – 01 09	Socrates-Erasmus European Student Exchange Programme Erasmus Study Grant ERASMUS exchange

Skills

Languages	German native English fluent Italian, Spanish basic knowledge
IT	Matlab, Dynare, STATA, MS Office, LaTeX expert knowledge Python, Mathematica, Fortran basic working knowledge
Databases	Thomson Reuters Datastream, Bloomberg, ECB Household Finance and Consumption Survey (HFCS), ECB Data Warehouse, OECD iLibrary, IMF International Financial Statistics

Miscellaneous

Citizenship	German
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