

CURRICULUM VITAE

PEDRO MIGUEL SOARES BRINCA

REFERENCES

Flodén, Martin (supervisor) – Swedish Central Bank (on leave from Stockholm University)

martin.floden@ne.su.se

Aguiar-Conraria, Luis – School of Economics and Business, University of Minho

lfaguiar@eeg.uminho.pt

Hassler, John – Institute for International Economic Studies, Stockholm University (IIES)

john.hassler@iies.su.se

Krusell, Per – Institute for International Economic Studies, Stockholm University (IIES)

martin.floden@ne.su.se

McGrattan, Ellen – Department of Economics, University of Minnesota.

erm@umn.edu

HIGHLIGHTS - MACROECONOMICS, MACROECONOMETRICS, TIME SERIES

2016 **Fiscal Multipliers in the 21st Century**, together with Hans Holter, Per Krusell and Laurence Malafry. *Journal of Monetary Economics* Volume 77, February 2016, ISSN 0304-3932.

2016 **Accounting for Business Cycles, 2nd Edition of the Handbook of Macroeconomics, Elsevier**
Joint with Varadarajan Chari, Patrick Kehoe and Ellen McGrattan.
Editors: Harald Uhlig and John Taylor, forthcoming.

2015 - Assistant Professor (tenure-track) at Nova School of Business and Economics, Lisbon.

2015 - Post-Doctoral Researcher at the Center for Economics and Finance, University of Porto

2014-15 Jean Monnet Fellow at the Robert Schumann Advanced Studies Center, European University Institute, Florence.

2007-13 Lecturer, Thesis Supervisor and Teaching Assistant at the BSc, MSc and PhD level for 13 courses with 305 hours of teaching/lecturing experience in the classroom and 3 thesis supervised and successfully defended (with distinction). Course evaluations provided upon request (Macroeconomics, Microeconomics, Time Series, Econometrics, Macroeconometrics).

2014 Distortions in the Neoclassical Growth Model: A Cross Country Analysis
Journal of Economic Dynamics and Control, Volume 47, October 2014, Pages 1-19, ISSN 0165-188, <http://dx.doi.org/10.1016/j.jedc.2014.07.0139>

2013 Stockholm Doctoral Course Program in Economics, Econometrics and Finance (SDPE)
(Joint Ph.D. program by the University of Stockholm and Stockholm School of Economics)
PhD in Economics – Essays in Quantitative Macroeconomics
- *Opponent: Professor Ellen McGrattan, Federal Reserve Bank of Minneapolis, October 8th 2013*

EDUCATION

2013 Stockholm Doctoral Course Program in Economics, Econometrics and Finance (SDPE)
(Joint Ph.D. program by the University of Stockholm and Stockholm School of Economics)
Ph.D. in Economics

2012-13 Faculty of Economics, Centre of Economics and Finance, University of Porto
Visiting Scholar

- 2008-09 Department of Economics, University of Minnesota
Visiting Scholar
- 2005-06 Department of Economics, University of Stockholm
Master of Science in Economics and Business Administration, with a major in Economics
§ Classification of Val Godkand (with Honours)
- 2003-05 Department of Economics, University of Stockholm
Bachelor of Science in Economics and Business Administration with a major in Economics
§ Classification of Val Godkand (with Honours)
- 2003-04 Department of Economics, University of Stockholm
Socrates / Erasmus Exchange Program
§ Val Godkand (with Honours) in 6 out of 6 courses

RELEVANT PROFESSIONAL AND TEACHING EXPERIENCE

- 2015 - **Assistant Professor (tenure-track) at Nova School of Business and Economics, Lisbon.**

Intermediate Macroeconomics Lecturer, for the BSc in Economics and BSc in Business Administration at Nova SBE (30 hours per semester).
- 2015 - **Post-Doctoral Researcher at the Center for Economics and Finance, University of Porto**
- 2014-15 **Jean Monnet Fellow (post-doc) at the Robert Schumann Advanced Studies Center, European University Institute, Florence.**
- 2013-14 **Lecturer** – Department of Economics, Stockholm University
Lecturer of MSc Time Series Econometrics, for the MSc in Economics and MSc in Banking and Finance, Department of Economics and Stockholm Business School, Stockholm University. (24 lecture hours)

Lecturer of Empirical Methods in Economics I, for the BSc in Economics, Department of Economics, Stockholm University (20 lecture hours).

Thesis Supervisor – Department of Economics, Stockholm University
2014-2015 **Do differences in international labor mobility lead to differences in the fiscal multiplier? A theoretical approach**, MSc thesis in Economics by Andrea Pfammatter. Grade: Pass with distinction(A)
2014-2015 **Monetary policy transmission in Iceland: A structural vector autoregressive approach**, MSc thesis in Economics by Lilja Kro. Grade: Pass with distinction (B).
2013-2014 **Optimum currency area and business cycle synchronization across the U.S. States**, MSc thesis in Economics by Haukur Vidar Gudjonsson. Grade: Pass with Distinction (A).
2013-2014 **Does money growth improve inflation forecasts? An out-of-sample forecast comparison for Sweden**, MSc thesis in Economics by Andreas Collet. Grade: Pass with Distinction (A).
2013-2014 **Estimating a Taylor rule under zero lower bound interest rates**, BSc thesis in Economics by Hermione Heffernan and Nicklas Cervin. Grade: Pass with Distinction (B).
2013-2014 **Fiscal consolidation during the Euro debt crisis: a SVAR approach**, BSc thesis in Economics by Shamiul Ehsan. Grade: Pass with Distinction (D).
- 2013- **Referee**
- Journal of Business Cycle Analysis and Measurement
- Journal of Macroeconomics
- Journal of Applied Econometrics
- The B.E. Journal of Macroeconomics
- Journal of the European Economic Association
- Journal of Economic Studies
- Emerging Markets in Economics and Finance
- 2012-15 **Associate Researcher (External) at the Center for Economics and Finance, Faculty of Economics of Porto, University of Porto.**
- 2013 **Adjunct Lecturer**, Department of Economics, Stockholm University.

- 2013** **Introduction to Quantitative Methods in Macroeconomics with MatLab Lecturer**, intensive MSc/PhD course ministered at the Faculty of Economics, University of Coimbra. (16 hours).
- 2012-13** **MSc Empirical Macroeconomics Examiner**, for the MSc in Economics, Department of Economics, Stockholm, University.
- 2011-12** **MSc Time Series Econometrics Guest Lecturer**, for the MSc in Economics and MSc in Banking and Finance, Department of Economics and Stockholm Business School, Stockholm University. (3 lecture hours – Introduction to VARs) Course evaluations available upon request
- 2011-12** **MSc Time Series Econometrics Teaching Assistant** for Markus Jäntti, for the MSc in Economics and MSc in Banking and Finance, Department of Economics and Stockholm Business School, Stockholm University. (54 hours). Course evaluations available upon request.
- 2011-12** **MSc Methodology Seminar Lecturer – Simulation Techniques with MatLab**, MSc in Economics, Department of Economics and MSc in Business Administration, Stockholm Business School, Stockholm University. (8 hours) Course evaluations available upon request.
- 2011-12** **MSc Macroeconomics Teaching Assistant**, for Martin Flodén, MSc in Economics, Department of Economics, Stockholm University. (24 hours) Course evaluations available upon request.
- 2011-12** **MSc Methodology Seminar Lecturer – A Primer in MatLab**, MSc in Economics, Department of Economics and MSc in Business Administration, Stockholm Business School, Stockholm University. (8 hours). Course evaluations available upon request.
- 2010-11** **MSc Time Series Econometrics Guest Lecturer**, for the MSc in Economics and MSc in Banking and Finance, Department of Economics and Stockholm Business School, Stockholm University. (3 hours – Introduction to VARs) Course evaluations available upon request.
- 2010-11** **MSc Time Series Econometrics Teaching Assistant** for Markus Jäntti, for the MSc in Economics and MSc in Banking and Finance, Department of Economics and Stockholm Business School, Stockholm University. (54 hours). Course evaluations available upon request.
- 2010-11** **MSc Macroeconomics Teaching Assistant**, for Martin Flodén, MSc in Economics, Department of Economics, Stockholm University. (24 hours) Course evaluations available upon request.
- 2009-10** **MSc Time Series Econometrics Teaching Assistant** for Matthew Lindqvist, for the MSc in Economics and MSc in Banking and Finance, Department of Economics and Stockholm Business School, University of Stockholm. (54 hours) Course evaluations available upon request.
- 2009-10** **Research Intern at the European Central Bank, External Developments Division**, under the supervision of Stephane Dees, Principal Economist
- 2007-08** **PhD Econometrics Teaching Assistant** for David Stromberg and Per Pettersson-Lidbom, Stockholm Doctoral Program in Economics (SPDE), Stockholm University and Stockholm School of Economics (9 hours). Course evaluations available upon request.
- 2007-08** **MSc Macroeconomics Teaching Assistant** for Anne Boschini, MSc in Economics, Department of Economics, Stockholm University (6 hours). Course evaluations available upon request.
- 2007-08** **MSc Microeconomics Teaching Assistant** for Ann-Sofie Kolm, MSc in Economics, Department of Economics, Stockholm University (14 hours). Course evaluations available upon request.
- 2005-06** Consumer Indebtedness Observatory of the Centre for Social Studies of the Faculty of Economics of Coimbra University
Associate Researcher
 Grant from the Science and Technology Foundation (STF):
 § Unemployment and Indebtedness - Project Coordinator: M. M. Marques
 - Project report for the STF (with Catarina Frade, Claudia Lopes, Sara Magalhães and Claudia Nogueira)
 § Pilot project in financial literacy, at Instituto D. João V.

PUBLISHED AND SUBMITTED WORK IN ECONOMICS

- 2016** **Accounting for Business Cycles**, together with V.V. Chari, Patrick Kehoe and Ellen McGrattan. Handbook of Macroeconomics, Second Edition, Elsevier (forthcoming). Working paper available at: <https://www.minneapolisfed.org/research/staff-reports/accounting-for-business-cycles>
Abstract: We elaborate on the business cycle accounting method proposed by Chari, Kehoe, and McGrattan (2007), clear up some misconceptions about the method, and then apply it to compare the Great Recession across OECD countries as well as to the recessions of the 1980s in these countries. We have four main findings. First, with the notable exception of the United States, Spain, and Ireland, the Great Recession was driven primarily by the efficiency wedge. Second, in the Great Recession, the labor wedge plays a dominant role only in the United States, and the investment wedge plays a dominant role in Ireland and Spain. Third, in the recessions of the 1980s the labor wedge played a dominant role only in Denmark and the United Kingdom. Finally, overall in the Great Recession the efficiency wedge played a much more important role and the investment wedge played a much less important role than they did in the recessions of the 1980s.
- 2016** **Business Cycle Synchronization Across U.S. States**, together with Luis Aguiar-Conraria, Haukur Gudjonsson and Maria Joana Soares. The B.E. Journal of Macroeconomics, ISSN(online 1935-1690. ISSN(print) 2194-6116. <http://dx.doi.org/10.1515/bejm-2015-0158>
Abstract: We use wavelet analysis to conclude that individual U.S. states' business cycles are very well synchronized. We also find evidence of a strong and significant correlation between business cycle dissimilarities and the distance between each pair of states, consistent to gravity type mechanisms where distance affects trade. Trade, in turn, increases business cycle synchronization, while a higher degree of industry specialization is associated with a higher dissimilarity of the state cycle with the aggregate economy. Finally, there is evidence that business cycle dissimilarities have been decreasing with time, consistent with the previous findings coupled with the idea that information and communications technology make distances smaller.
- 2016** **Fiscal Multipliers in the 21st Century**, together with Hans Holter, Per Krusell and Laurence Malafry. Journal of Monetary Economics Volume 77, February 2016, ISSN 0304-3932. <http://dx.doi.org/10.1016/j.jmoneco.2015.09.005>.
Abstract: Fiscal multipliers appear to vary greatly over time and space. Based on VARs for a large number of countries, we document a strong correlation between wealth inequality and the magnitude of fiscal multipliers. In an attempt to account for this finding, we develop a life-cycle, overlapping-generations economy with uninsurable labor market risk. We calibrate our model to match key characteristics of a number of OECD economies, including the distribution of wages and wealth, social security, taxes, and government debt and study how a fiscal multiplier depends on various country characteristics. We find that the fiscal multiplier is highly sensitive to the fraction of the population who face binding credit constraints and also to the average wealth level in the economy. These findings together help us generate a cross-country pattern of multipliers that is quite similar to that in the data.
- 2014** **Distortions in the Neoclassical Growth Model: A Cross Country Analysis**
 Journal of Economic Dynamics and Control, Volume 47, October 2014, Pages 1-19, ISSN 0165-1889, <http://dx.doi.org/10.1016/j.jedc.2014.07.013>
Abstract: This paper investigates the properties of distortions that manifest themselves as wedges in the equilibrium conditions of the neoclassical growth model across a sample of 22 OECD countries for the 1970-2011 period. The quantitative relevance of each wedge and its robustness in generating fluctuations in macroeconomic aggregates is assessed. The efficiency wedge proves to be determinant in enabling models to replicate movements in output and investment, while the labor wedge is important to predict fluctuations in hours worked. Modeling distortions to the savings decision holds little quantitative or qualitative relevance. Also, investment seems to be the hardest aggregate to replicate, as prediction errors concerning output and hours worked are typically one order of magnitude smaller. These conclusions are statistically significant across the countries in the sample and are not limited to output drops. Finally, the geographical distance between countries and their degree of openness to trade are shown to contain information with regard to the wedges, stressing the importance of international mechanisms of transmission between distortions to the equilibrium conditions of the neoclassical growth model.

- 2013** **“Monetary Business Cycle Accounting for Sweden”**
The B.E. Journal of Macroeconomics. Volume 13, Issue 1, Pages –, ISSN (Online) 1935-1690, ISSN (Print) 2194-6116, DOI: [10.1515/bejm-2013-0027](https://doi.org/10.1515/bejm-2013-0027), October 2013
Abstract: “When creating competing models of economic fluctuations, researchers typically introduce frictions in their models aiming to replicate the observed movements in the data. This paper implements a business cycle accounting procedure for the Swedish economy. Both the 1990's and 2008 recessions are given a special focus. Evidence is provided for properties that structural extensions to the business cycle model need to have in order to replicate the movements in the data. Distortions to the labor market and movements in total factor productivity are the most determinant features to be modeled with respect to real variables as well as deviations from a Taylor rule for interest rate setting, though the latter plays little role for both the 1990s or 2008 recessions. The distortions seem to share a structural break during the 1990s crisis but not so during the current one.”
- 2013** **“Consumer Confidence as a Predictor of Consumption Spending: Evidence for the United States and Euro Area”**
Joint with Stephane Dees, published in the ECB Working Paper Series, available at: <http://www.ecb.int/pub/pdf/scpwps/ecbwp1349.pdf>
Final version published in *International Economics* 2013, Issue n°134. available at <http://dx.doi.org/10.1016/j.inteco.2013.05.001>
Abstract: “For most academics and policy makers, the depth of the 2008-09 financial crisis, its longevity and its impacts on the real economy resulted from an erosion of confidence. This paper proposes to assess empirically the link between consumer sentiment and consumption expenditures for the United States and the euro area. It shows under which circumstances confidence indicators can be a good predictor of household consumption even after controlling for information in economic fundamentals. Overall, the results show that, the consumer confidence index can be in certain circumstances a good predictor of consumption. In particular, out-of-sample evidence shows that the contribution of confidence in explaining consumption expenditures increases when household survey indicators feature large changes, so that confidence indicators can have some increasing predictive power during such episodes. Moreover, there is some evidence of a "confidence channel" in the international transmission of shock, as U.S. confidence indices help predicting consumer sentiment in the euro area.”
- 2005** **“Unemployment and Overindebtedness, Contours of a Dangerous Relationship”** with Catarina Frade, Cláudia Lopes, Cláudia Nogueira, and Sara Magalhães - Research Report, CES Publications 2006.

UNPUBLISHED WORK IN ECONOMICS

- 2006** **“The Impact of Public Investment in Sweden – A VAR Approach”**
Master Thesis (Department of Economics of Stockholm University)
- 2005** **“Are Kant’s Categorical Imperative and Instrumental Rationality Compatible? The Case for the Prisoner’s Dilemma”**
Bachelor Thesis (Department of Economics of Stockholm University)

WORK IN PROGRESS IN ECONOMICS

- 2016** **Identification Issues in Maximum Likelihood Estimation of Business Cycle Accounting Models**
Joint with Nikolay Iskrev and Francesca Loria
Abstract: Since its introduction by Chari et al. (2007), Business Cycle Accounting (BCA) exercises have become widespread. Much attention has been devoted to the results of such exercises and to methodological departures from the baseline methodology. Little attention has been paid to estimation and identification issues within these classes of models, despite the methodology typically involving estimating relatively large scale dynamic stochastic general equilibrium models. In this paper we investigate whether such issues are of concern in the original methodology proposed by Chari et al. (2007) and in an extension proposed by Sustek (2011), namely Monetary Business Cycle Accounting (MBCA). To assess such identification issues, we resort to two types of identification tests. One concerns strict identification in

population as theorized by Komunjer and Ng (2011) while the other deals both with strict and weak identification in sample as in Iskrev (2015). As to the former, when restricting the estimation to just the parameters governing the latent variable's laws of motion, we find that both in the BCA and MBCA framework, all parameters fulfill the requirements for strict identification. If instead we estimate all structural parameters of the model jointly, both frameworks show strict identification failures in several parameters. These results hold both in population and in sample. When we explore weak identification issues, we find that they affect both models and that they arise from the fact that many of the parameters estimated do not have a distinct effect on the likelihood. Finally, we explore the extent to which these weak identification problems are economically relevant for the main takeaways of a standard and monetary BCA exercise.

2016 Immigration in the 21st Century

Joint with Hans Holter, Per Krusell and Laurence Malafry

Abstract: Migration trends and recent events have brought back immigration and its impact on the world economies to the forefront of economic policy. In the U.S., the stock of foreign born individuals as a share of total population has more than doubled since 1980 and almost tripled, as a share of civilian workforce. In Europe, the recent refugee crisis has sparked a heated debate about how to allocate the refugees across countries. Immigrants individuals typically differ along many dimensions from natives, such as wealth and education, and one would expect immigration to have an impact on wage and wealth inequality, labor market dynamics and, consequently, skill choice and skill premium. We build a calibrated overlapping generations model in order to study the quantitative relevance of such immigration shocks on these variables. We also aim to find how the same immigration intake could lead to different outcomes in different countries, for observable differences in countries' characteristics.

2016 Government Spending and firms' dynamics

Joint with Miguel Ferreira and Francesco Franco

Abstract: Using firm level data and government demand by industry we empirically dismantle the two paths through which variations in government demand affect firms' dynamics: demand and inputs' costs. Empirical results indicate that the inputs' costs channel prevails, with an increase in government demand crowding out private investment through limiting the ability of firms to issue debt. An increase in government demand decreases as well firms' job creation, due to an expansion in labor costs. The combination of an increase in costs of labor and capital causes more firms to leave the market and less ones to enter. Results are robust to the business cycle. We plan to assess the ability of the standard Hopenhayn (1992) heterogeneous firms' model in matching these stylized facts and better understand the fiscal policy transmission mechanism from the firm side.

2016 Fiscal consolidation and inequality

Joint with Hans Holter, Miguel Ferreira and Francesco Franco and Laurence Malafry

Abstract Following the Great Recession, many European countries implemented fiscal consolidation policies, aimed at reducing government debt. In a recent paper, Blanchard and Leigh (2013) show that these policies had significant negative effects on output and argue that the effects were generally miscalculated by the IMF. Other than the size of the fiscal consolidation they can, however, not find any factor that helps reducing the forecast error. Using the same data, we document a strong positive empirical relationship between higher income inequality and stronger recessive impacts of austerity across European countries. To explain this finding, we develop a life-cycle, overlapping generations economy with uninsurable labor market risk. We calibrate our model to match key characteristics of a number of European economies, including the distribution of wages and wealth, social security, taxes and debt and study the effects of fiscal consolidation programs. We find that higher income risk induces precautionary savings behavior and decreases the proportion of credit-constrained agents in the economy. Credit constrained agents have a higher marginal propensity to consume goods and leisure and their labor supply respond less in response to increases in taxes or decreases in government expenditures. This explains the relation between income inequality and impact of fiscal consolidation programs. Our model produces a cross-country pattern between inequality and the fiscal multipliers, resulting from consolidation, which is quite similar to that in the data.

PUBLISHED AND SUBMITTED WORK IN BIOSTATISTICS

2013 "Tuberculosis screening and treatment compliance in HIV patients"

Joint with Viveiros, F. Margarida, M., Carvalho, A. and Duarte, R.

- 2012** **“Allergic Disease Severity and Relations”**
 Joint with Viveiros, F., Gonçalves, I., Lima, R., Duarte, R., Pascoal, I., Moura e Sá, J. and Aurora Carvalho.
 Published online in *World Allergy Organization Journal*, 2012, February; Sup(2), S94. (Conference proceedings)
- 2011** **“Study of the Mutational State of EGFR in Diagnostic Samples of NSCL – New Approach Methods”**
 Joint with Antunes, A., Campainha, S., Barroso, A., Conde, S., Neves, S., Machado, J.C. and Barbara Parente.
 Published in *Journal of Thoracic Oncology 2011, Volume 6, Issue 6*, pp. S1495-S1496. (Conference proceedings).
- 2011** **“Epidemiology and Survival Analysis of Lung Cancer – 10 Years of Experience in a Portuguese Respiratory Reference Center”**
 Joint with Campainha, S., Antunes, A., Barroso, A., Conde, S., Neves, S., and Barbara Parente.
 Published in *Journal of Thoracic Oncology 2011, Volume 6, Issue 6*, pp. S1431-S1432. (Conference proceedings).

COMPLEMENTARY EDUCATION

- 2016** **CEF2016 Workshop “(Not Only A Heterogeneous Agent) Economics Algorithmic Repository and toolkit: Econ-ARK”** ministered by Christopher Carroll, from the John Hopkins University and Nathan Palmer, from the Office of Financial Research, US Department of Treasury, in Bordeaux.
- 2014** **PhD course in Calibration and Structural Estimation of Macroeconometric Models** – ministered by Fabio Canova, from the European University Institute, in Florence.
- 2014** **Communication in Games, Theory and Experiments** – ministered by Indrajit Ray from the Department of Economics of the University of Birmingham, at Universidade Católica do Porto.
- 2014** **Applied Macroeconomics Research Workshop** – ministered by Per Krusell and Tobias Broer, from the IIES, Hans Holter and Svetlana Pachenko from the Department of Economics of the University of Uppsala, at Stockholm University.
- 2014** **Principles of Fiscal and Monetary Policy** – ministered by Pedro Teles, from the Bank of Portugal and Catholic University of Lisbon, in Faculty of Economics of Porto, Porto.
- 2013** **Flexible regression through Generalized Additive Models (GAMs). Biomedical applications using R** – ministered by Carmen María Cadarso-Suárez, Unit of Biostatistics - School of Medicine, University of Santiago de Compostela, at Instituto Superior de Saúde Pública da Universidade do Porto, Porto.
- 2013** **Understanding Clinical Trials** – ministered by Ana Azevedo, University of Porto, at Instituto Superior de Saúde Pública da Universidade do Porto, Porto.
- 2012** **The Science and Art of DSGE Modelling: A Course on Model construction, Calibration, Estimation and Policy Analysis** – ministered by Paul Levine, University of Surrey and Bo Yang, from the London Metropolitan University and University of Surrey, at Universidade do Minho, Escola de Economia e Gestao, Braga.
- 2009** **Dynare Training Course** – ministered by Stephane Adjemian. from the Department of Economics, Universite du Main, at the European Central Bank
- 2009** **PhD course in Financial Economics** – ministered by Ellen McGrattan, from the University of Minnesota, at the Department of Economics, University of Minnesota.
- 2008-09** **Workshop in Labor Economics** – Yearly PhD course ministered by Jose Victor Rios Rull, at the Department of Economics, University of Minnesota

- 2008** **PhD course in Risk Sharing and New Dynamic Public Finance** – ministered by Narayana Kocherlakota, University of Minnesota, at the Department of Economics - University of Oslo.
- 2008** **Summer School in Bayesian Econometrics** – ministered by James Hamilton, University of California – San Diego, at the Escola de Economia e Gestão - Universidade do Minho, Braga.
- 2007** **Summer School in Finance: Modern Dynamic Asset Pricing Models** – ministered by Pietro Veronesi, from the University of Chicago, at Universidade Nova de Lisboa
- 2007** **Summer Course in Quantitative Methods in Macroeconomics and Policy Analysis** – ministered by Ellen McGratten, from the University of Minnesota, at the Escola de Economia e Gestão - Universidade do Minho, Braga.
- 2007** **PhD Intensive Course in Growth Policy** – ministered by Philippe Aghion, from Harvard University, at the Stockholm School of Economics
- 2007** **PhD mini-course in International Macroeconomics** – ministered by Timothy J. Kehoe, from the University of Minnesota, at the Norwegian School of Economics and Business Administration, Bergen
- 2007** **PhD mini-course in Topics in Search Theory** – ministered by Susan Vroman and Jim Albrecht, from Georgetown University, at the Stockholm University.
- 2006** **Intensive Course in Spatial Econometrics** – ministered by James LeSage from the Department of Finance and Economics, College of Business Administration, Texas State University, at the Faculty of Economics of the University of Coimbra.

LANGUAGE PROFFICIENCY

Portuguese	Native language
English	Excellent Proficiency, written and spoken § <i>Test of English as Foreign Language (TOEFL) score 290/300 (9/9/05).</i>
Spanish	Good Proficiency, written and spoken
French	Basic Proficiency, written and spoken

GRANTS & AWARDS

- 2015** **“Adjustment in European Economies in the Wake of the Economic Crisis”, Workshop held by the Bank of Portugal with prizes to the best papers selected.**
- 2015** **Post-Doctoral Studies Grant by the Foundation for Science and Technology**, Ministry of Science, Technology and Higher Education, Portuguese Government
- 2014** **Jean Monnet Fellowship from the European Commission**, post-doctoral position at the Robert Schumann Advanced Studies Institute, European University Institute, Florence.
- 2011** **Research Grant from Handelsbanken**
- 2007** **PhD Scholarship from the Foundation for Science and Technology**, Ministry of Science, Technology and Higher Education, Portuguese Government.
- 2006** Stipendium ur Stiftelsen Erik Joahn Ljunbergs Utbildningsfond (14/9/2006)
§ **SEK 100.000 for doktorandstudier vid Nationalekonomiska Institutionen**
- 2005** Portuguese Economists Association
§ **1st Prize for the Best Article in Economic Policy, I Contest of Themes in Economics**
– The Importance of a Pact (with Ruben Branco)

INVITED TALKS AND SEMINARS

- 2017 FEUC, CEF.UP, U Victoria-Wellington, Humboldt U, U Aveiro, UBI
- 2016 UBI, CEF.UP, CEFAGE, GPEARI, U Madeira, U Minho
- 2015 U Minho, FEUC, UCP – Porto, CEF.UP, Aachen RWTH, NovaSBE, Federal Reserve Board, CEF.UP
- 2014 AU Paris, CREATES, Humboldt U, FEUC, UCP – Porto, IFN, METU
- 2013 FEUC, U Minho.

CONFERENCE PARTICIPATIONS

- 2017 **“23nd International Conference on Computing in Economics and Finance” (Fiscal Consolidation Programs and Income Inequality)**, with Hans Holter, Miguel Ferreira, Francesco Franco and Laurence Malafry, in New York, June 28th to 30th.
- 2017 **“Royal Economic Society Symposium of Junior Researchers” (Fiscal Consolidation Programs and Income Inequality)**), with Hans Holter, Miguel Ferreira, Francesco Franco and Laurence Malafry, in Bristol, UK.
- 2016 **“5th Portuguese-Brazilian Macroeconomic Meetings - LubraMacro” (Invited discussant for Survey Design and Forecast Accuracy, by R. Giacomini, W. Gaglianone, J. Issler and V. Skreta)**, in Vila Real, September 10th.
- 2016 **“31st Annual Congress of the European Economic Association” (On Identification Issues in Maximum Likelihood Estimation of Business Cycle Accounting Models)**, with Nikolay Iskrev and Francesca Loria, in Geneva, June 23th to 29th.
- 2016 **“Transmission and Effectiveness of Macroprudential Policies” (Invited discussant for “Amortization requirements and household indebtedness - an application to Swedish style mortgages”, by Isiah Hull)**, in Lisbon, July 4th.
- 2016 **“22nd International Conference on Computing in Economics and Finance” (On Identification Issues in Maximum Likelihood Estimation of Business Cycle Accounting Models)**, with Nikolay Iskrev and Francesca Loria, in Bordeaux, June 26th to 28th.
- 2016 **“2nd HenU / INFER Workshop on Applied Macroeconomics” (On Identification Issues in Maximum Likelihood Estimation of Business Cycle Accounting Models)**, with Nikolay Iskrev and Francesca Loria in Kaifeng, March 18th, 19th.
- 2016 **“2nd HenU / INFER Workshop on Applied Macroeconomics” (Accounting for Business Cycles with Wedges)**, with V.V. Chari, Patrick Kehoe and Ellen McGrattan, in Búzios, in Zhangzhou, March 18th-19th.
- 2015 **“COEURE Workshop on Fiscal and Monetary Policies after the Crisis” (Business Cycle Accounting in OECD Countries: Lessons from the Great Recession)**, with Francesca Loria, in Florence, EUI, June 5th.
- 2015 **“4th Portuguese-Brazilian Macroeconomic Meetings - LubraMacro” (Accounting for Business Cycle with Wedges)**, with V.V. Chari, Patrick Kehoe and Ellen McGrattan, in Búzios, September 10th-12th.
- 2015 **“30th Annual Congress of the European Economic Association” (Fiscal Multipliers in the 21st Century)**, with Hans Holter, Per Krusell and Laurence Malafry, in Mannheim, July 3rd-6th.
- 2015 **“9th Meetings of the Portuguese Economic Journal” (Fiscal Multipliers in the 21st Century)**, with Hans Holter, Per Krusell and Laurence Malafry, in Terceira, Azores, July 3rd-6th.
- 2015 **“38th Annual NBER Summer Institute” (Fiscal Multipliers in the 21st Century)**, with Hans Holter, Per Krusell and Laurence Malafry, in Cambridge, Massachusets, July 6th-24th.

- 2015 **“26th Society for Economic Dynamics Annual Meeting” (Fiscal Multipliers in the 21st Century)**, with Hans Holter, Per Krusell and Laurence Malafry, at the University of Warsaw, June 25th-27th.
- 2015 **“Carnegie-Rochester-NYU conference on Public Policy 2015” (Fiscal Multipliers in the 21st Century)**, with Hans Holter, Per Krusell and Laurence Malafry, at the Stern School of Business, New York University, April 24th-25th.
- 2015 **“Hoover Institution Handbook of Macroeconomics Volume 2 Conference”, (Accounting for Business Cycles with Wedges)**, with Varadarajan Chari, Patrick Kehoe and Ellen McGrattan, in Stanford, April 9th-11th.
- 2015 **“Bank of Portugal Workshop: Adjustment in European Economies in the Wake of the Economic Crisis”, (Fiscal Multipliers and Wealth Heterogeneity in the XXI Century)**, with Hans Holter, Per Krusell and Laurence Malafry, in Lisbon, January 16th.
- 2014 **8th Meetings of the Portuguese Economic Journal”, (Fiscal Multipliers: Does Inequality Matter?)**, with Hans Holter, Per Krusell and Laurence Malafry, in Braga, July 4th to 5th.
- 2014 **“International Economic Association 17th World Congress”, (Fiscal Multipliers: Does Inequality Matter?)**, with Hans Holter, Per Krusell and Laurence Malafry in Amman, June 6th to 10th.
- 2013 **“5th World Congress on Sleep Medicine”, (The impact of benzodiazepine use in nocturnal O₂ saturation of OSAS patients)**, with Marta Gonçalves, Ana Antunes, Alberta Leão e Susana Maia in Valencia, September 30th.
- 2013 **“7th Annual Meeting of the Portuguese Economic Journal”, (Distortions in the Neoclassical Growth Model: A Cross Country Analysis)**, in U Beira Interior, Covilhã, July 8th-9th.
- 2013 **“Public Economic Theory 2013”, (Distortions in the Neoclassical Growth Model: A Cross Country Analysis)**, in U Católica de Lisboa, Lisbon, July 5th-7th.
- 2012 **“European Network for Training in Economics conference”, (Monetary Business Cycle Accounting for Sweden)**, in Universidad Autonoma de Barcelona, Barcelona, February, 9th2012.
- 2011 **“14th World Conference on Lung Cancer”, (Study the mutational state of EGFR in diagnostic samples of NSCLC – New approach methods)**. Joint with Antunes, A., Campaignha, S., Castro, A., Barroso, A., Conde, S., Neves, S. and Parente, B. in 3rd -7th July, Amsterdam.
- 2011 **“14th World Conference on Lung Cancer”, (Epidemiology and survival analysis in lung cancer – 10 years of experience in a Portuguese respiratory reference center)**. Joint with Campaignha, S., Antunes, A., Barroso, A., Conde, S., Neves, S. and Parente, B. in 3-7th July, Amsterdam.
- 2010 **“International Symposium on Forecasting”, (Consumer Confidence as a Predictor of Consumption Spending: Evidence for the US and Euro-Area)**, joint with Stephane Dees, San Diego, June.
- 2010 **“European Respiratory Society Annual Congress”, (Allergic disease severity: Mono vs polisensitization)**, joint with Viveiros, F., Gonçalves, I., Antunes, A., Lima, R., Duarte, R. and Carvalho, A.), Barcelona.
- 2009 **“European Respiratory Society Annual Congress”, (EGFR – A useful biomarker?)**, joint with Antunes, A., Gomes, J. Lima, C., Machado, J. and Parente, B. in Vienna, 12-16 September.
- 2009 **“XXXVI Reunión Annual SOGAPAR y XXVII Galaicoduriense”, (Fracção Exalada do Óxido Nítrico eBroncoprovocação – O que podemos esperar)**, joint with Antunes, A., Gomes, J., Viveiros, F., Loureiro, A., Lima, R., Centeno, C. and Guimarães, M., in Santiago de Compostela, 20-21 November, 2009.

- 2009 “**XXXVI Reunión Annual SOGAPAR y XXVII Galaicoduriense**”, (**DPOC – Adpção psicológica à doença**), joint with Antunes, A., Gomes, Guimarães, M., Pascoal, I. and Taveira, in Santiago de Compostela, 20-21 November.
- 2009 “**16º Congresso de Pneumologia do Norte**”, (**Feno e Asma de Exercício – Correlação?**). Joint with Viveiros, F. Antunes, A., Gomes, J., Costa, L., Guimarães, M. and Centeno, C., in Porto, 19-20 March.
- 2008 “**XXIV Congresso de Pneumologia**”, (**FeNO e PC20 – Que esperar?**). Joint with Antunes, A., Gomes, J., Guimarães, M., Costa, L., Machado, J. and Parente, B., in Porto, 5-8th December. Published in Revista Portuguesa de Pneumologia, volume XIV, suplemento IV, December.
- 2006 “**How to manage your budget without problems**” Seminar, C.M. Palmela
Guest Speaker (*Analysis of Consumer Indebtedness in Portugal*), with Sara Magalhães, in Biblioteca do Pinhal Novo, 16th of January.
- 2006 “**Equality and Social Inclusion in the 21st Century: Developing Alternatives - An international multi-disciplinary conference**”, **School of Sociology & Social Policy – Queen’s University Belfast**. Conference Speaker (*Gender Specific Effects, Attitudes and Strategies in a Context of Overindebtedness Risk*), with Sara Magalhães, in Wellington Park Hotel, Belfast, 3rd of February.
- 2006 “**7th Inter-University Graduate Conference: Challenging the Boundaries in the Social Sciences, Centre for Research in the Arts, Social Sciences and Humanities**”, **University of Cambridge**. *The link between norms, values and economic outcomes. An Evolutionary approach* (poster), in Cambridge, 20th May.
- 2006 “**International Symposium on Economic Theory, Policy and Applications**”, Athens Institute for Education and Research – Conference Speaker (*Are Kant’s Categorical Imperative and Instrumental Rationality Compatible? The case for the Prisoner’s Dilemma*), Athens, August 21st to 23rd.