

IREA-UB News

IX Annual Seminar of IREA-UB

The IX IREA Annual Seminar, was held on January 15th of 2016 in the Aula Magna of the Faculty of Economics and Business of the University of Barcelona. Rafael Doménech from the University of Valencia and BBVA Research was this year's guest lecturer. His conferences was about "The long-run Challenges of the Spanish Economy" in which he kept that "the challenge for Spain is to implement the structural reforms needed to grow more evenly and therefore create more employment and welfare". He also kept that "Spain must remove barriers to growth and promote more efficient markets, in order to promote business growth, competitiveness and internationalization". The number of assistances this year were 50.

Speakers:

■ Celia Melguizo (AQR-IREA)

"An analysis of Okun's law for the Spanish provinces"

Discussant: Lidia Farré (GiM-IREA)

■ Malena Monteverde (Riskcenter-IREA)

"Envejecimiento Poblacional y Dependencia en la Argentina"

Discussant: Marién André (AQR-IREA)

■ Daniel Albalade and Albert Gragera (GiM-IREA)

"The impact of curbside parking regulation on garage demand"

Discussant: Manuela Alcañiz (Riskcenter-IREA)

■ Rafael Domenech

"The Long-Run Challenges of the Spanish Economy"

For more information about the program visit the following link: [\[+\]](#)

**Big data for insurance**

Arthur Charpentier (Professor of the University of Québec à Montréal and the University of Rennes I) has presented Data Science & Big Data for Actuaries. The place of the presentation has been at Sala de Graus of the Faculty of Economics and Business of the University of Barcelona on Tuesday 5th of April of 2016 at 16:00h.

For more information about the presentation: [\[+\]](#)

**AQR-IREA researchers published the "Day trippers in small areas: Methodology and implementation: Barcelona area" book**

Barcelona Provincial Council published the book "Day trippers in small areas Methodology and implementation: the Barcelona area" Suriñach, J. [Dir.], Casanovas, J.A. [Coor.] André, M., Murillo, J., Romaní, J. (2015).

This work is pioneer in Europe by proposing a specific methodology to identify and account day trippers moving in the territory, and in the case of Barcelona and its regions represents a very large volume of people so far unquantified. The used methodology and an application to the county of the Alt Penedès, in the Province of Barcelona are presented.

This publication is the result of joint work between the Laboratory of knowledge transfer AQR-Lab, CEGOS and Barcelona Provincial Council.



Visit the book by the following link: [\[+\]](#)

AQR-Lab presented the "study on the impact of the adoption of a minimum wage locally: International evidence"

The Regional Minister of Employment, Social Affairs and Family, Dolors Bassa, participated in the presentation of the "Study on the impact of the adoption of a minimum wage locally. International evidence" produced by AQR-Lab Laboratory of Applied Economics at the University of Barcelona and commissioned by the Metropolitan Area of Barcelona (AMB).

One of the main conclusions of the study, which compared several international research level, is the introduction of a minimum wage does not destroy jobs, despite several voices that until recently accredited so. Among the various positive effects of the minimum wage, the authors include increased purchasing power for workers in lower wage strips, which generates more economic activity; and a decrease in the rates of poverty and inequality, which also results in less dependence on grants and social benefits. Another measure is the increase in prices.

IREA-UB News

Since the studies on which searches are based on international territories have different economies to the reality of the AMB and the Catalan economy, the study also recommends an ex-ante on features (salary structure, sectoral specialization, level of training of workers, etc) which affect the application of the minimum wage. It also suggests a series of issues on which we should consider before implementing the measure (such as salary, deferred the introduction of the measure, if you needed to do was to exclude certain groups or sectors, mechanisms adoption, etc).

For more information about the program visit the following link: [\[+\]](#)



Dra. Vayá (AQR-Lab from UB) presented the study about the economic impact of cruises carried out by Port of Barcelona

On Thursday April 28, 2016 at the Casa Llotja, the “Study of the economic impact generated by the activity of Cruises of Barcelona Port” were presented.

The event was chaired by the president of the Chamber of Commerce of Barcelona, Mr. Miquel Valls, the president of the Port of Barcelona, Mr. Sixte Cambra, one of the authors of the study and member of AQR-Lab, Dr. Esther Vayá, the Minister of Business and Knowledge of the Regional Government of Catalonia, Mr. Jordi Baiget and Ms. Gala Pin, Participation and District Councilor and Councilor for Ciutat Vella.

The study commissioned more than one year ago to AQR-Lab Laboratory, and with the collaboration of Tourism of Barcelona, shows that the sector keeps nearly 7,000 jobs. In addition, it concludes that the activity of Cruise of Port of Barcelona:

- Generates an annual turnover of 796 million euros in Catalonia (2.2 million daily).
- Contributes to the GDP of Catalonia in 413 million euros.
- Generates 152 million euros of tax revenue.
- Maintains almost 7,000 full time jobs.
- Provides connectivity flights to Barcelona airport and economic stability in other parts of the city.
- Not only benefits the sectors linked to tourism but also other industrial and service sectors.

- Corresponds to a profile of cruise passengers who usually travel in pairs, with considerable interest to know the city and is a good prescriber (90% want to return and recommend to friends and acquaintances).

For more information visit the following link: [\[+\]](#)



Dr. Jordi Suriñach, guest speaker at the “XVII Information services and universities guidance meetings”

Dr. Jordi Suriñach has been invited to participate as a guest speaker in the “XVII Information services and universities guidance meetings” which will be celebrated from 27 to 29 April at the University of La Rioja.

The topic of this year was “The university information and guidance: Beyond the admission” where he spoke about the drop out at the university level and which actions should do the Information Services and Universities Guidance (SIOU) to minimize it. The SIOU is a working group that gathers technical information services and orientation of 36 Spanish universities.

In the framework of this year, Dr. Jordi Suriñach presented a summary of all studies done jointly with Dr. Miquel Clar, from 2007 to the present, about the drop out at the University of Barcelona. Thus, it is proposed to extend the UB experience to the group of Spanish universities.

The information meetings is in the following link: [\[+\]](#)



IREA-UB News

Thesis defenses

- Jessica Ordoñez Cuenca (May, 24th): “Tres ensayos sobre migración y Mercado Laboral en Ecuador”, directed by Dr Raúl Ramos and by Dr Vicente Royuela.
- Karen Davtyan, (April, 29th) “Essays on Macroeconomic Policies and Redistribution”, directed by Dr. Raúl Ramos and Dr. Josep Lluís Carrion.
- Marta Gonzalez Aregall (February, 01st) “Infraestructure and Transport economics: an overview of Port’s sector”, directed by Dr. Xavier Fageda Sanjuan.
- Omar Gacia Leon (January, 29th) “Tres ensayos sobre la movilidad laboral: aspectos metodológicos y evidencia empírica”, directed by Dr. Raul Ramos Lobo.
- Rogelio Ladrón de Guevara Cortés (January, 24th) “Techniques for estimating the generative multifactor model of returns in statistical approach to the arbitrage Pricing Theory evidence from the Mexican stock Exchange”, directed by Dr. Salvador Torra Porras.
- Rosa Garcia Hernandez (January, 22nd) “Approaches to variable pay systems”, directed by Dr. Rosa Nonell Torres.
- Santiago Aguilá Batllori (January, 14th) “El control financer I la Gestió dels costos a la Universitat Pública: el cas català”, directed by Dr. Jordi Martí Pidelaserra and Dr. Francisco Martín Peña.

FORTHCOMING EVENTS

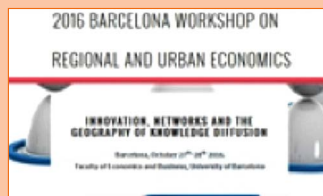
International Workshop on the Economics of Parking 28th November 2016



This conference will focus on the recent developments in the economics of parking. By bringing together researchers from different countries, it seeks to become an international meeting to discuss the developments and challenges of research in this field. Papers presented may be theoretical or applied. However, special attention will be given to empirical papers addressing transport policy issues related to the regulation of parking. The workshop will bring together academics, policymakers and practitioners from the public and private sectors to discuss those issues. The conference format will be designed to facilitate informal interactions among participants.

AQR-IREA is pleased to announce the 2016 Barcelona Workshop on Regional and Urban Economics, to be held in Barcelona on October 27th-28th, 2016.

The workshop will be focused on innovation and the spatial diffusion of knowledge with emphasis in collaboration networks. Its aim is to bring together researchers in urban and regional economics who are working in topics where the broad concept of the geography of innovation plays a fundamental role. Particular attention will be paid to papers dealing with the mechanisms and actors of knowledge diffusion (knowledge spillovers, networks, technological collaboration, and knowledge relatedness). Although the Workshop will focus on empirical papers, theoretical studies are also welcome.



The keynote speakers of the workshop will be:

- Maryann Feldman (Department of Public Policy at the University of North Carolina)
- Karen Maguire (Regional Innovation Unit of the OECD Regional Development Policy Division)

IREA-UB Seminars

Edward W. Frees

(University of Wisconsin)
 Title: Insurance Portfolio Risk Retention
 Place: **Room 329, Espais de Recerca (ERE),**
20/01/2016 12:30h
 Group: **Riskcenter-IREA**

Hoon Choi

(Universitat de Barcelona)
 Title: Do anti-discrimination laws alleviate labor market duality?
 Place: **329, Espais de Recerca (ERE),**
03/02/2016 14:00h
 Group: **AQR Seminar – IREA Seminar**

Simonetta Longhi

(Institute for Social and Economic Research)
 Title: Do anti-discrimination laws alleviate labor market duality?
 Place: **329, Espais de Recerca (ERE),**
05/02/2016 12:30h
 Group: **AQR Seminar – IREA Seminar**

Francesco Quatraro

(University of Turin)
 Title: Knowledge Complexity and Productivity Growth in European Regions
 Place: **329, Espais de Recerca (ERE),**
19/02/2016 12:30h
 Group: **AQR Seminar – IREA Seminar**

Stefania Marcassa

(Université de Cergy-Pontoise)
 Title: The Geography of Social Change
 Place: **329, Espais de Recerca (ERE),**
04/03/2016 12:30h
 Group: **AQR Seminar – IREA Seminar**

IREA-UB Seminars

Cristina Lopez-Mayan

(Universitat Autònoma de Barcelona)

Title: Teaching Styles and achievement: Student and Teacher Perspectives

Place: 329, Espais de Recerca (ERE), 18/03/2016 12:30h

Group: AQR Seminar – IREA Seminar

Jasper Van Dijk

(University of Oxford)

Title: Investing in lagging regions is efficient: a local multipliers analysis of US cities

Place: 329, Espais de Recerca (ERE), 01/04/2016 12:30h

Group: AQR Seminar – IREA Seminar

Ricardo Cao

(Universidad A Coruña)

Title: Single index models and applications

Place: 321, Espais de Recerca (ERE) 12/04/2016 15:00h

Group: Riskcenter Seminar – IREA Seminar

Joan Maria Mussons

(Universitat de Barcelona)

Title: Estimating Potential Output at Regional Level: the Catalan Case

Place: 329, Espais de Recerca (ERE), 13/04/2016 14:00h

Group: AQR Seminar – IREA Seminar

Helen McGuirk

(University of Limerick)

Title: Employee, firm and national level divers of firm-level

innovation

Place: 329, Espais de Recerca (ERE), 15/04/2016 12:30h

Group: AQR Seminar – IREA Seminar

Pier Paolo Saviotti

(Université Pierre Mendès-France)

Title: Differentiation, structural change and co-evolution in economic development

Place: 329, Espais de Recerca (ERE) 29/04/2016 12:30h

Group: AQR Seminar – IREA Seminar

Marta Trapero-Bertran

(UIC & CRES-UPF)

Title: Behaviour, quality of life and economic evaluation

Place: 329, Espais de Recerca (ERE) 06/05/2016 12:30h

Group: AQR Seminar – IREA Seminar

Jorge Antonio Rodríguez

(Universitat de València)

Title: The effect of different kinds of innovation on Ecuadorian firms performance

Place: 329, Espais de Recerca (ERE) 18/05/2016 14:00h

Group: AQR Seminar – IREA Seminar

Paula Gutiérrez Portilla

(Universitat de Cantabria)

Title: What drives FDI location in the Spanish regions? A spatial panel approach

Place: 329, Espais de Recerca (ERE) 22/06/2016 14:00h

Group: AQR Seminar – IREA Seminar

IREA-UB Working Papers

2016/01 “Technological cooperation in Spanish firms”

Badillo, E.R and Moreno, R.

2016, 38 pag. ISSN 2014-1254

2016/02 “Do anti-discrimination laws alleviate labor market duality? Quasi-experimental evidence from Korea”

Choi, H.

2016, 30 pag. ISSN 2014-1254

2016/03 “Relatedness, external linkages and innovation”

Miguélez, E. and Moreno, R.

2016, 32 pag. ISSN 2014-1254

2016/04 “Income Inequality and Monetary Policy: An analysis on the Long Run Relation”

Davtyan, K.

2016, 37 pag. ISSN 2014-1254

2016/05 “Exploration during turbulent times: an analysis of the effects of R&D cooperation on radical innovation performance during the economic crisis”

Lorena M. D’Agostino and Moreno, R.

2016, 43 pag. ISSN 2014-1254

2016/06 “The Distributive effects of conventional and unconventional monetary policies”

Davtyan, K.

2016, 45 pag. ISSN 2014-1254

2016/07 “Innovation, heterogeneous firms, and the region”

López-Bazo, E. and Motellón, E.

2016, 31 pag. ISSN 2014-1254

2016/08 “Graduate migration in Spain: the impact of the great recession on a low mobility country”

Ramos, R. and Royuela, V.

2016, 18 pag. ISSN 2014-1254

2016/09 “Retaking a course in Economics: Innovative methodologies to simulate academic performance in large groups”

Abio, G. and Alcañiz, M. and Gómez-Puig, M and Rubert, G and Serrano, M. and Stoyanova, A. and Vilalta-Buff, M.

2016, 25 pag. ISSN 2014-1254

2016/10 “Debt-growth linkages in EMU across countries and time horizons”

Gómez-Puig, M and Sosvilla-Rivero, S

2016, 37 pag. ISSN 2014-1254

IREA-UB Publications. First semester 2016

- Alaminos, E., Ayuso, M. (2016) "Políticas demográficas encaminadas al incremento de la natalidad: especial incidencia en el caso español" *Revista del Ministerio de Empleo y Seguridad Social, Políticas de empleo y Seguridad Social en la X Legislatura, Número Extraordinario*, 99-108.
- Albalate, D., Bel-Piñana, P., (2016). "Winners and Losers in Toll Motorway Renegotiations: an empirical evaluation of the Spanish Pioneers", *Public Money & Management*, 36(5), 365-372.
- Albalate, D., Fageda, X., (2016). "High-Speed rail and tourism: Empirical evidence from Spain", *Transportation Research Part A: Policy and Practice*, 85, 174-185.
- Ayuso, M., Bermúdez, L.I., Santolino, M. (2016) "Copula-based regression modeling of bivariate disability severity of temporary and permanent motor injuries", *Accident Analysis and Prevention*, 89, 142-150. DOI: <http://dx.doi.org/10.1016/j.aap.2016.01.008>.
- Ayuso, M., Guillen, M. and Pérez-Marín, A.M. (2016) "Using GPS data to analyse the distance travelled to the first accident at fault in pay-as-you-drive insurance" *Transportation Research Part C: Emerging Technologies*, 68, 160-167. DOI: <http://dx.doi.org/10.1016/j.trc.2016.04.004>.
- Ayuso, M., Guillen, M. and Pérez-Marín, A. M. (2016) "Telematics and gender discrimination: some usage-based evidence on whether men's risk of accidents differs from women's" *Risks*, 4(2), 1-10. DOI: <http://dx.doi.org/10.3390/risks4020010>.
- Bel, G. & Gradus, R., (2016). "Effects of unit-based pricing on household waste collection demand: A meta-regression analysis", *Resources and Energy Economics*, 44: 169-182.
- Bel, G. & Rosell, J. (2016). "Public and Private production in a mixed delivery system: regulation, competition and costs", *Journal of Policy Analysis and Management*, 35(3): 533-558.
- Belles-Sampera, J., Guillen, M. and Santolino, M. (2016) "The use of flexible quantile-based measures in risk assessment" *Communications in Statistics-Theory and Methods*, 45(6), 1670-1681. DOI: <http://dx.doi.org/10.1080/03610926.2014.938829>.
- Belles-Sampera, J., Guillen, M., Santolino, M. (2016) "What attitudes underlie distortion risk measure choices", *Insurance: Mathematics and Economics*, 68, 101-109. DOI: <http://dx.doi.org/10.1016/j.insmatheco.2016.02.005>.
- Cairo-i-Cespedes, G.; Castells-Quintana, D. (2016) "Dimensions of the current systemic crisis". *Progress in Development Studies*, 16, 1, 1-23
- Castillo-Manzano, J.I., Castro-Nuño, M., Fageda, X., (2016). "Exploring the relationship between truck load capacity and traffic accidents in the European Union", *Transportation Research-E*, 88, 94-109.
- Choi, H.; Choi, A. (2016) "Regulating private tutoring consumption in Korea: lessons from another failure". *International Journal of Educational Development*, 49, 144-156
- Chuliá, H., Guillen, M. and Uribe, J.M. (2016) "Modeling longevity risk with generalized dynamic factor models and vine-copulae", *ASTIN Bulletin*, 46(1), 165-190. DOI: <http://dx.doi.org/10.1017/asb.2015.21>
- Claeys, P.; Ramos, R.; Suriñach, J. (2016), Interaction of government tiers and central banks in a federation: an empirical test, *Fiscal Studies*, forthcoming.
- Claveria, O.; Monte, E.; Torra, S. (2016) "Combination forecasts of tourism demand with machine learning models". *Applied Economics Letters*, 23 (6), 428-431
- Claveria, O.; Monte, E.; Torra, S. (2016) "Quantification of Survey Expectations by Means of Symbolic Regression via Genetic Programming to Estimate Economic Growth in Central and Eastern European Economies". *Eastern European Economics*, 54 (2), 171-189
- Di Paolo, A. (2016) "(Endogenous) occupational choices and job satisfaction among recent Spanish PhD recipients". *International Journal of Manpower*, Vol. 37 Iss: 3, pp.511 - 535
- Fageda, X., Flores-Fillol, R., (2016). "How do airlines react to airport congestion? The role of networks", *Regional Science and Urban Economics*, 56, 73-81.
- Farré, L., (2016). "New Evidence on the Healthy Immigrant Effect", *Journal of Population Economics*, Vol 29(2): 365-394, Impact factor: 1.109.
- Farré, L., (2016). "Parental leave policies and gender equality - A survey of the literature", *Estudios de Economía Aplicada (Invited contribution)*, Vol 34 (1): 45-60.
- Gómez-Puig, M. and Sosvilla-Rivero, S. (2016) "Causes and hazards of the euro area sovereign debt crisis: Pure and fundamentals-based contagion" *Economic Modelling*, 56, 133-147. DOI: <http://dx.doi.org/10.1016/j.econmod.2016.03.017>
- Goya, E.; Vayá, E.; Suriñach, J. (2016) "Innovation spillovers and firm performance: micro evidence from Spain (2004-2009)". *Journal of Productivity Analysis*, 45, 1-22
- Guillen, M. (2016) "How much risk is too much?" *Science and Society Lecture Series. University of Liverpool, March 15*

IREA-UB Publications. First semester 2016

Marí del Cristo, M.L. and Gómez-Puig, M. (2016) "Fiscal sustainability and dollarization: the case of Ecuador" *Applied Economics*, 48, 2139–2155. DOI: <http://dx.doi.org/10.1080/00036846.2015.1114580>

Piulachs, X., Alemany, R. and Guillen, M. (2016) "Joint modelling of survival and emergency medical care usage in Spanish insureds aged 65+" *PLoS one*, 11(4), e0153234. DOI: <http://dx.doi.org/10.1371/journal.pone.0153234>.

Ramos, R., Suriñach, J. (2016), A Gravity Model of Migration Between ENC and EU, *Tijdschrift voor economische en sociale geografie*, forthcoming.

Rouhani, O., R.R. Geddes, O. Gao & G. Bel (2016) "Social Welfare Analysis of Investment Public-Private Partnership Approaches for Transportation Projects", *Transportation Research Part A: Policy and Practice*, 88, 86-103.

Rouhani, O., D. Niemeier, H.O. Gao & G. Bel (2016) "Cost Benefit Analysis of Various California Renewable Portfolio Standard Targets: Is a 33% RPS Optimal?", *Renewable & Sustainable Energy Reviews*, 62, 1122-1132.

Singh, M.K., Gómez-Puig, M. and Sosvilla-Rivero, S. (2016) "Sovereign-Bank linkages: Quantifying directional intensity of risk transfers in EMU countries". *Journal of International Money and Finance*, 63, 137-164. DOI: <http://dx.doi.org/10.1016/j.jimonfin.2016.01.003>

Suriñach, J; Calero, J.(2016) (Editors) Economics of Education. Evaluation and Policies. *Estudios de Economía Aplicada: Vol. 34-2. ISSN: 1133-3197 (Print) 1697-5731 (Online)*

Suriñach, J; Calero, J.(2016) The Relevance of Lifelong Learning (LL) in the Economics of Education: Establishing a Research Program. *Estudios de Economía Aplicada: 305-318. Vol. 34-2*

IREA-UB Publications. First semester 2016

Antón Costas

Volver al interés común
07-01-2016, El Periódico

Antón Costas

Algo habremos aprendido,
13-01-2016, La Vanguardia

Raúl Ramos

2016: Any nou i vells fantasmes?
10-01-2016, L'Econòmic

Antón Costas

Por qué el consenso es posible,
17/01/2016, El País

Antón Costas

Una nueva belle époque,
27-01-2016, La Vanguardia

Antón Costas

El coste de aprender a gobernar
04-02-2016, El Periódico

Antón Costas

Pactar o ceder el sitio,
10-02-2016, La Vanguardia

Germá Bel

Cercanía: Simbolismo y Realidad
10-02-2016, Diari Ara

Daniel Albalade

Inauguraciones en contexto
12-02-2016, El Periódico

Raúl Ramos

Què preocupa a les borses?
14-02-2016, L'Econòmic

Antón Costas

Otra tormenta perfecta ,
15-02-2016, El Periódico

Antón Costas

Atreverse a pensar lo impensable,
24-02-2016, La Vanguardia

Antón Costas

Corrupción de los sentimientos morales
03-03-2016, El Periódico

Antón Costas

Síndrome europeo del alcohólico reformado
06-03-2016, El País

Antón Costas

El consenso viene tras el acuerdo
09-03-2016, La Vanguardia

Raúl Ramos

Teniu canvi de 500?
13-03-2016, LA Econòmic

Antón Costas

El aumento de la desigualdad viene por abajo
23-03-2016, La Vanguardia

Antón Costas

En el ojo del huracán
31-03-2016, El Periódico

Antón Costas

Corrupción de los sentimientos morales y populismo
03-04-2016, El País

Antón Costas

Salida y voz en la política catalana
06-04-2016, La Vanguardia

Raúl Ramos

És un bon moment ara per fer negocis?
10-04-2016, L'Econòmic

Daniel Albalade

Economía 101 para políticos: otra vuelta de tuerca sobre la rentabilidad social de las infraestructuras
15-04-2016, Nada es gratis

Antón Costas

Futuro incierto, presente depresivo
20-04-2016, La Vanguardia

IREA-UB Publications. First semester 2016

Daniel Albalade

Tenemos un debate pendiente:
Impuestos o peajes?
23-04-2016, Diari Ara

Antón Costas

Economía golfa
28-04-2016, El Periódico

Antón Costas

El luto por el bipartidismo
04-05-2016-La Vanguardia

Raúl Ramos

Cap a un salari mínim de ciutat
08-05-2016, L'Econòmic

Antón Costas

Se miente pero no se engaña
18-05-2016, La Vanguardia

Antón Costas

Arde Europa
22-05-2016, El País

Antón Costas

Ilusiones de un mundo al borde del caos
28-05-2016, El Periódico

Raúl Ramos

Diferencias regionales en las tasas de
riesgo de pobreza o exclusión social
01-06-2016, Blogs ABC

Antón Costas

Economía ética
01-06-2016, La Vanguardia

Daniel Albalade

Estimem Catalunya
07-06-2016, Diari Ara

Antón Costas

El capitalismo y sus descontentos
12-06-2016, El País

Raúl Ramos

És la feina fixa un concepte del passat?
12-06-2016, L'Econòmic

Antón Costas

Cuando los hechos cambian
15-06-2016, El País

Antón Costas

Patologías sociales de la desigualdad
23-06-2016, El Periódico

Antón Costas

Ajuste de expectativas políticas
29-06-2016, La Vanguardia

Daniel Albalade

Una caída en picado
05-07-2016, El Periódico

Raúl Ramos

Per què cobren més els homes que les
dones?
10-07-2016, L'Econòmic

UB-IREA Management

> Director:

Jordi Suriñach Caralt
Professor
Department of Econometrics, Statistics and Applied Economy

Germà Bel Queralt

Professor
Department of Econometrics, Statistics and Applied Economy

Joan-Ramon Borrell

Assistant professor
Department of Econometrics, Statistics and Applied Economy

> Scientific Secretary's Office:

M^a Carme Riera i Prunera
Assistant professor
Department of Econometrics, Statistics and Applied Economy

Montserrat Guillén Esany

Professor
Department of Econometrics, Statistics and Applied Economy

Enrique López-Bazo

Professor
Department of Econometrics, Statistics and Applied Economy

> Executive Council:

Mercedes Ayuso Gutiérrez
Professor
Department of Econometrics, Statistics and Applied Economy

Rosina Moreno Serrano

Professor
Department of Econometrics, Statistics and Applied Economy

IREA Applied Economics Research Institute

Universitat de Barcelona

Faculty of Economics and Business
Espai de Recerca en Economia
Av. Tinent Coronel Valenzuela, 1-11
08034 Barcelona
Spain

Tel.: 0034 93 402 90 81
Fax: 0034 93 403 72 42
E-Mail: irea@ub.edu
Web: <http://www.ub.edu/irea>

