

## CV Ana-Isabel Guerra (September 2014)

Department of International Economics  
Faculty of Economics and Business Administration  
Universidad de Granada  
Campus Universitario de la Cartuja  
Granada 18071 (Spain)  
Office: B308  
Phone: +34 (958) 241 000 Ext.20325 Fax: +34 (958)  
246680

- **Education:**

2009. Ph.D in Economics.Universitat Autònoma de Barcelona. Barcelona. Spain

2003. Master in Economic Sciences. Katholeik Universiteit Leuven. Leuven. Belgium.

2002. Graduated in Economics. Universidad de Salamanca. Salamanca. Spain.

- **Current Position:**

Assistant Professor. Department of International Economics.Universidad de Granada. Spain.

- **Past Positions:**

2010-2011.Visiting Professor. Department of Economics and Quantitative Mehtods.Universidad Pablo de Olavide. Seville. Spain.

2009-2010.Post-doctoral Researcher. Department of Applied Economics. Universitat Autònoma de Barcelona. Barcelona. España.

2005-2009.Predocctoral Student with a Ph.D. Scholarship (Ministry of Education, Culture and Sports, Spain) Department of Applied Economics. Universitat Autònoma de Barcelona.Barcelona. España.

- **Research Interests:**

Energy and Environmental Economics  
Fiscal Policies  
Regional Economics  
Interindustry Models, Input-Output Analysis  
Applied General Equilibrium Methods  
Computational Economics.

- **Research Experience:**

- Publications

1-Guerra, A-I. 2014. 'A Proposal to Combine Classical and Hypothetical Extraction I-O Methods to Identify key sectors in the Production and Distribution of Electricity'. Energy Efficiency. 8, pp.1-16.

2-Guerra, A-I.; Sancho, F. 2014. 'An Operational Non-Linear I-O System'. Economic Modelling, Vol.41, pp. 99-108.

3-Guerra, A-I.;Sancho, F. 2012"A non-possibility theorem for joint stability in interindustry models". Applied Mathematics and Computation. 219, pp. 4045- 4048.

4-Guerra, A-I; Sancho, F. 2011"Revisiting the Ghosh Model: Can it be made more Plausible?".Economic Systems Research. 23 (3), pp. 319 - 329.

5-Guerra, A-I; Sancho, F. 2011."Budget Constrained Expenditure Multipliers". Applied Economic Letters. 18 (13), pp. 1259 - 1262.

6-Guerra, A-I; Sancho, F. 2010."Measuring Energy Linkages with the Hypothetical Extraction Method: the case of Spain". Energy Economics. 32 (4), pp. 831 - 837.

7-Guerra, A-I; Sancho, F. 2010."Rethinking Economy-Wide Rebound Measures: An Unbiased Proposal". Energy Policy. 38 (10), pp. 6684 - 6694.

- Books:

1-Cardenete, M-A; Guerra, A-I; Sancho, F. 2012."Applied General Equilibrium: An Introduction".Springer Texts in Business and Economics. Springer-Verlag. Berlin.

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### ◦Contributions to Books:

1- Guerra, A-I; Sancho, F. 2010. "An Analysis of Primary Energy Requirements and Emissions Levels using the Structural Decomposition Analysis". In *Air Pollution: Economic Modelling and Control Policies*. pp. 112 - 130. (Editor: MaríaLlop Llop). London: Bentham Ebooks.

2-Guerra, A-I; Sancho, F. 2009. "Modelos Económicos para el Análisis Medioambiental y el Cambio Climático. In *El cambio Climático: Análisis económico y Políticas*". 36, pp.64-79. (Editor: Joseph M.Vegara). Colección de Estudios Económicos. La Caixa.

### ◦Courses (lectured):

1-Guerra, A-I (with Manuel-Alejandro Cardenete). 2014. "Applied General Equilibrium: An Introduction" at the International School of Input-Output Analysis. Lisbon, 12-13 July.

2-Guerra, A-I (with Manuel-Alejandro Cardenete). 2013. "Applied General Equilibrium: An Introduction" at the International School of Input-Output Analysis. Seville, 18 September.

### ◦Research Projects:

1-2012-2014. Research in Computational Economics (Reserca en Economia Computacional i Simulació).

Rol: Researcher.

Principal Researcher: Prof. Michael Creel.

Financed by: Direcció General de Recerca. Generalitat de Catalunya.

Institution: Universitat Autònoma de Barcelona.

2-2010-2014. Essays in Computational Economics II (Ensayos en Economia Computacional y Simulación II).

Rol: Researcher.

Principal Researcher: Prof. Michael Creel.

Financed by: General-Directorate of R&D Activity. Ministry of Education and Sciences. Spanish Government.

Institution: Universitat Autònoma de Barcelona.

3-2009-2010. Reforms of Environmental Taxes and the Mitigation of the Rebound Effect: The Evaluation of a Possible Third Dividend.

Rol: Principal Researcher.

Financed by: Institute of Fiscal Studies. Ministry of Finance. Spanish Government

4-2007-2010. Essays in Computational Economics I (Ensayos en Economia Computacional y Simulación).

Rol: Researcher.

Principal Researcher: Prof. Ferran Sancho.

Financed by: General-Directorate of R&D Activity. Ministry of Education and Sciences. Spanish Government.

Institution: Universitat Autònoma de Barcelona.

### ◦Contributions to Foreign Research Projects:

1-2011. The Economic Impacts of a Rail-related Disaster on the U.S. Northeast Corridor.

Rol: Collaborator.

Principal Researcher: Prof. Michael Lahr.

Financed by: State Government of New Jersey. United States.

Institution: Edward J. Bloustein School of Planning and Public Policy at Rutgers, The State University of New Jersey. USA.

2-2008. An Empirical General Equilibrium Analysis of the Factors that Govern the Extent of Energy Rebound Effects in the UK Economy

Rol: Collaborator.

Principal Researcher: Prof. Karen Turner.

Financed by: The Economic and Social Research Council. United Kingdom.

Institution: Strathclyde University. Glasgow, United Kingdom.

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### ◦Work in Progress:

1-Guerra, A-I; Sancho, F.2014. "A Price Model with Extractions".

2-Lahr, M; Greenberg, M.; Guerra, A-I; Zhang, H and Kwon, J.2011. "Impact of the Loss of Rail System Service on a Key Segment of New Jersey's Urban Industrial Corridor: A Simple CGE Analysis."

3-Guerra, A-I.2011. "Green Tax Reforms and the Mitigation of the Rebound Effect: Evaluating a Possible Third Dividend".

### ◦Research Visits:

1.2014. (Planned visit: from October 2014 till February 2015)Department of Global Economics and Management. Faculty of Economics and Business Administration. Gröningen University. The Netherlands.  
Invited by: Prof. Bart Los.

2-2013. Department of Economics and Economic History. Faculty of Economics and Business Administration. Universitat Autònoma de Barcelona. Barcelona.  
Invited by: Prof. Ferran Sancho.

3-2011. The Edward J. Bloustein School of Planning & Public Policy. Rutgers, The State University of New Jersey. United States.  
Invited by: Prof. Michael Lahr.

4-2008. Department of Economics and Fraser of Allander Institute. Strathclyde University. Glasgow. United Kingdom.  
Invited by: Prof. Peter McGregor.

### ◦Invited Seminars:

1-2013. Department of Economics. Universitat de Barcelona.  
Invited by: Prof. Antonio Manresa.

2-2011. The Edward J. Bloustein School of Planning & Public Policy. Rutgers; The State University of New Jersey. United States.  
Invited by: Prof. Michael Lahr.

3-2011. Department of Economics. Universitat Rovira i Virgili. Tarragona. Spain.  
Invited by: Prof. María Llop-Llop.

4-2011. Department of Economics and Quantitative Methods. University Pablo de Olavide. Seville. Spain.  
Invited by: Prof. Manuel-Alejandro Cardenete.

5-2010. Department of Economics. Umea University. Umea. Sweden.  
Invited by: Prof. Runar Brännlund.

6- 2008. Department of Economics. Strathclyde University. Glasgow. United Kingdom.  
Invited by: Prof. Peter McGregor.

### ◦Contributions to National and International Conferences (Selected):

1-Guerra, A-I. 2013. 'A Proposal to Combine Classical and Hypothetical Extraction I-O Methods to Identify key sectors in the Production and Distribution of Electricity'.  
Conference: Workshop in Economics of Energy Efficiency.  
Held in: Universitat Rovira i Virgili.

2-Guerra, A-I; Sancho, F. 2013. "An Inter-temporal Price Model with Extractions".  
Conference: Economic Modelling 2013 (EcoMod 2013).  
Held in: Prague. Czech Republic.

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3-Guerra, A-I; Sancho, F. 2013. "An Inter-temporal Price Model with Extractions".  
Conference: 53th ERSA Congress.  
Held in: Palermo. Italy.

4-Guerra, A-I. 2011. "Merging the Hypothetical Extraction Method and the Classical Multiplier Approach: A Hybrid Possibility". Conference: IV Jornadas de SHAI0  
Held in: Madrid. España.

5- Guerra, A-I. 2011. Green Tax Reforms and the Mitigation of the Rebound  
Effect: Evaluating a Possible Third Dividend. Conference: 19th International Input-Output Conference.  
Held in: Alexandria, Virginia.  
United States.

6-Guerra, A-I.; Sancho, F. 2010. "Revisiting the Original Ghosh Model: Can it be made more plausible"  
Conference: 18th International Input-Output Conference  
Held in: Sidney, Australia.

7- Guerra, A-I. 2010. "Sensitivity Analysis of Economy-Wide Rebound Effects to Different  
KLEM Specifications". Conference: The Royal Economic Society Fith PhD Presentation Meeting  
Held in: London.  
United Kingdom.

8-Guerra, A-I.; Sancho, F. 2009. "Short-Run Policies and Scenarios whereby the Rebound Effect might be Mitigated"  
Conference: 17th International Input-Output Conference  
Held in: Sao Paulo. Brazil.

9-Guerra, A-I.; Sancho, F. 2009. "Measuring Energy Linkages with the Hypothetical Extraction Method: an Application to Spain".  
Conference: International Energy Workshop  
Held in: Venice. Italy.

10-Guerra, A-I. 2009. " Sensitivity Analysis of Economy-Wide Rebound Effects to Different KLEM Specifications"  
Conference: 38th Annual Conference of the Regional  
Science Association International: British an Irish Section.  
Held in: Limerick, Irland.

### ○Honors and Awards:

-Pre-doctoral Fellowship. Ministry of Science and Technology. Spanish Government. 2005-2009. Acronym (Spanish): FPU Fellowship.

-European Ph.D Mention. 2010.

### ○Other Research Activities:

-Member of the Editorial Board of the International Journal: **The Review of Regional Studies**. Editors: Prof. Michael Lahr and Prof. Mark L. Burkey.

### • **Teaching Experience:**

#### ○Main Teaching Interests:

Interindustrial and General Equilibrium Economics, Input-Output Analysis, World Economics, International Economics and Environmental Economics.

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### ◦Teaching Experience (Selected):

1-Universidad de Granada. Granada. Spain.

Foreign Trade, Trade and Industrial Economic Structure, World Economics, Labour Market in EU and Spain, Spanish Economic Structure.

2-Universidad Pablo de Olavide. Seville. Spain.

World Economics, Spanish Economy Structure, Environmental Economics.

3-Universitat Pompeu Fabra. Barcelona. Spain.

Statistics I.

4-Universitat Autònoma de Barcelona. Barcelona. Spain.

World Economics, Applied Economics, Public Economics, International Economics.

### ◦Teaching Projects (Educational Innovation):

1. 2013-2015. The Design of Test Examinations for the Evaluation of Transversal Competences.

Rol: Researcher

Principal Researcher: Prof. Ana Isabel Moro.

Financed by: Vicerectorate for Academic Affairs and Educational Innovation. University of Granada.

Institution: Faculty of Economics and Business Administration. University of Granada.

### ◦Publications (related to Educational Innovation):

1. Guerra Hernández, A-I. 2014. 'La Elaboración de un Ensayo sobre la Globalización: una propuesta práctica para el Desarrollo y la Evaluación de Competencias Genéricas. Prácticum de Historia Económica (Asociación Española de Historia Económica). N°22.

### ◦Books (Teaching Manuals):

1. Guerra Hernández, A-I. 2014. 'Manual Teórico y Práctico de Economía Mundial'. (In Spanish). Ed. AVICAM. Granada. España