



## María Amparo Urbano

### Short Vita

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#### Personal

Title: Full Professor of Economics

Affiliation: Departament of Economic Analysis and ERI-CES (a Centre for Interdisciplinary Research in Economics). University of Valencia.

Address: Campus de los Naranjos, 46022 Valencia. Spain.

Phone: +34 96 3828246. Fax: +34 96 3828249. e-mail: [amparo.urbano@uv.es](mailto:amparo.urbano@uv.es)

#### Education

Ph. D., Economics, Universidad de Valencia (1990).

Ph. D., Economics, University of Illinois, USA (1989).

M. Sc. in Economics. University of Illinois, USA (1985).

B.A. in Economics, Universidad de Valencia (1980)

Diploma in Operation Research, University of Valencia (1981)

**Fields of interest:** Mathematical Microeconomics, Game Theory, Economics of Information, Industrial Economics, Networks

#### Academic Experience

Assistant Professor of Economics, University of Valencia (1989-1992)

Associate Professor in Economics, University of Valencia, 1992-2004.

Full professor: 2004-

#### Teaching Areas:

**Undergraduate:** Game Theory

**Graduate:** Advanced Microeconomics, Game Theory and Economics of Information.

#### Short Visiting Academics (since 2000):

L. Recanatì B. S. de Tel-Aviv and The Center for Rationality and Interactive decision theory, U. Hebrea de Jerusalem. Israel, 2000. 2 months.

Department of Economics. University Paris I. France, 2002, Fall semester.

The Center for Game Theory in Economics, of the State University of New York (SUNY) at Stony Brook, EEUU, 2011, 1 month.

Universidade de Sao Paulo, Sao Paulo, Brasil, 2014, 1 month and a half.

The Center for Game Theory in Economics, of the State University of New York (SUNY) at Stony Brook, EEUU, 2017, 3 weeks.

The Center for Game Theory in Economics, of the State University of New York (SUNY) at Stony Brook, EEUU, 2019, 3 weeks.

## Grants and prizes

B.A. Extraordinary Prize. Thesis entitled: "Los Derechos de Propiedad y la Teoría de la Empresa" (Property Rights and the Theory of the Firm), University of Valencia, 1982.

Fulbright.Scholarship, Bank of Bilbao. Year: 1983-1985.

Ph. D. Extraordinary Prize. Doctoral Thesis: "Modelos dinámicos de Monopolio y Duopolio con aprendizaje Bayesiano" (Dynamic models of monopoly and oligopoly with Bayesian learning), 1990.

## Honors and Services to the Profession:

- Director of "ERI-CES", a Centre for Interdisciplinary Research in Economics at the University of Valencia. 2006-
  - Chair of the Organizing Committee of the 34<sup>th</sup> Conference of the European Association for the Research in Industrial Economics (EARIE), Valencia 2007.
  - Member of the Nacional Agency for Evaluation and Prospective in Economics (ANEP) for the National Programme: Promotion of general knowledge and Socioeconomics Programme, 2000-2002.
  - Member of the Nacional Agency for Evaluation and Prospective in Economics (ANEP) for Economics, 2007-2010.
  - Member of the Jury of Pascual Madoz National Prize in Economics, 2011-2012.
  - Project referee for BBVA.
  - La Caixa referee, programme: scholarship for PhD. in Europe and North-America.2014-
  - President of the Economic Spanish Association, 2010
  - Vicepresident of the Economic Spanish Association, 2009.
  - Chair of the Organizing Committee of the Fourth Spanish Meeting on Game Theory, Valencia 2000.
  - Member of the Research Commission, University of Valencia, 1991-2000.
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- Member of the Permanent Committee of Research, University of Valencia, 2000-2004.
  - Director of the Official Doctorate Programme in Industrial Economics, 2006-
  - ANECA referee, 2012-
  - Elected Member of the Patronato de la Barcelona Graduate School of Economics, 2010-
  - Vice-Director of the Doctoral School of the University of Valencia (2015-).
  - President of the Social, Legal and Economic Sciences Committee for academic research and teaching evaluation. UNIBASQ, The Agency for Quality of the Basque University System. August 2016-
  - Journal Referee for: Review of Economic Studies, International Economic Review, Econometrica, Journal of Economic Theory, International Journal of Industrial Organization, International Journal of Game Theory, Journal of Economic Dynamics and Control, Games and Economic Behavior, International Game Theoretical Review y Bec Series.
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### Congress Organization:

- Seminars in Industrial Organization and Game Theory, University of Valencia, 1990-1997.
- Co-organizer and member of the scientific committee of the Summer Meetings en "Game Theory and Economic Applications", University of Valencia, 1993-2001,
- Co-organizer member of the scientific committee of the Industrial Organization annual conference, Spain, 1992-1996.
- Co-organizer of the XXIII Simposium of Economic Analysis, Barcelona 1998.
- Member of the scientific committee of the Fifth and Sixth Spanish Meetings on Game Theory (Sevilla 2002 y Elche 2004) y XIV, XV y XVI IMGTAS (Italian Meetings on Game Theory and Applications), Ischia 2001, Urbino 2003 y Foggia 2006.
- Member of the scientific committee of the XXVII y XXIX Simposia of Economic Analysis, Salamanca, 2002 and Navarra 2004.
- Co-organizer of the Workshop in "Networks and Strategic Communication", Valencia 25-27, January, 2006, and "Networks and Strategic Communication II", Valencia 19-20, September, 2007.
- Member of the scientific committee of SING I (First Spain-Italy-Netherlands Meeting on Game Theory, Maastrich, 2005) y SING 2 (Foggia, 2006) y SING 3 (Madrid, 2007), Sing 4 (Poland, 2008) and SING 5.
- Member of the scientific of the 17th International Conference on Game Theory, Stony Brook 2006.
- Member of the scientific committee of the 36th Annual Conference of the European Association for Research in Industrial Economics (EARIE), 2009
- Chair of the Organizing Committee of the 34th Annual Conference of the European Association for Research in Industrial Economics (EARIE), Valencia 6-9 de Septiembre, 2007.
- Co-organizer of the Workshop on "Networks and Strategic Communication II", Valencia 19-20 de Septiembre, 2007.
- Co-organizer of The 2nd Brazilian Workshop of the Game Theory Society in honor of John Nash on the occasion of the 60th anniversary of Nash Equilibrium (São Paulo School of Advanced Sciences on Game Theory), University of Sao Paulo, Brazil, 2010.

- Co-organizer of the International Workshop on Game Theory and Economic Applications of the Game Theory Society, celebrating the 70th Birthday of Marilda Sotomayor (São Paulo School of Advanced Sciences on Game Theory and Economic Applications ), University of Sao Paulo, Brazil. 2014.

## Selected Publications

- "Entry with two correlated signals: The case of industrial espionage and its positive competitive effect" (with A. Barrachina and Y.Tauman), *International Journal of Game Theory*, in press, 2020.
- "Security in Digital Markets" (with Mariola Sánchsz), *Journal of Business Research*, 101, pp. 485-491, 2019.
- "Identification of efficient equilibria in multiproduct trading with indivisibilities and non-monotonicity" (with Iván Arribas), *Journal of Mathematical Economics*, 79(2018), 83-94.
- "Learning in Markets" in Chapter Dynamic I.O. Games of the Handbook of Game Theory and Industrial Organization, Vol I, Cap. 17. L. Corchón and M. Marini (eds.). Edward Elgar, Feb. 2018.
- "Multiproduct trading with a common agent under complete information: Existence and characterization of Nash equilibrium" (with Iván Arribas), *Journal of Economic Theory*, 167 (2017), 14-38. <http://dx.doi.org/10.1016/j.jet.2016.10.004>.
- On-line appendix for "Multiproduct trading with a com-mon agent under complete information: Existence and characterization of Nash equilibrium" (with Iván Arribas), Supplementary material in *Journal of Economic Theory*, 167 (2017).
- "Brand price differentials in retail distribution: product quality and service quality" (with Juan A. Mañez, Rafael Moner Colonques and Jose J. Sempere-Monerris), *Applied Economics*, 48:59, 5749-5760, DOI: 10.1080/00036846.2016.1184377 (2016).
- "Attraction Effects and Contextual Inference" (with Y. Gómez., V. Moles, and Jose Vila), *Journal of Business Research*, 69, 5082-5088. <http://dx.doi.org/10.1016/j.jbusres.2016.04.084> (2016).
- "Entry and espionage with noisy signals" (with A. Barrachina, Yair Tauman) *Games and Economic Behavior*, 83, pp. 127-146 (2014).
- "Statistical formats to optimize evidence-based decision making: a behavioral approach" (with I. Arribas, I. Comeig, and Jose Vila), *Journal of Business Research*, 67 (5), pp. 790-794 (2014).
- "Universal and pragmatic languages: An equilibrium approach", (with P. Hernández and Jose Vila). *Games and Economic Behavior*, vol.76 (2), pp. 738-752 (2012).

- "Are Social and Entrepreneurial attitudes compatible? (with i. Arribas, P. Hernández and Jose Vila) A behavioral and self-perceptual analysis", *Management Decision*, 50, 1739-1757. (2012).
- "Group Connectivity and Cooperation" (SEA Presidential Address). *SERIEs*, vol. 2(2) pp. 139-158.(2011).
- "Product Line Choice in Retail Duopoly", (with R. Moner-Colonques and J.J. Sempere-Monerris). *Journal of Economics and Management Strategy* (JEMS), vol. 20 (3) pp. 777-802. (2011).
- "Codification Schemes and Finite Automata", (with P. Hernández). *Mathematical Social Sciences*, 56 (3), pp. 395-409. (2008).
- "Nash Equilibrium in a Model of Multiproduct Price Competition: An Assignment Problem", (I. Arribas) *Journal of Mathematical Economics*, vol. 41 (3) pp. 351-385. (2005).
- "Repeated Games with Probabilistic Horizon", (with I. Arribas) *Mathematical Social Sciences*, vol. 50 pp. 39-60. (2005).
- "Strategic Delegation with Multi-Product Firms", (with R. Moner-Colonques and J.J. Sempere-Monerris) *Journal of Economics and Management Strategy* (JEMS), vol. 13(3), pp. 405-427 (2004).
- "Computationally Restricted Unmediated Talk under Incomplete Information" (with Jose Enrique Vila). *Economic Theory*, vol. 23 (2), pp. 283-320. (2004).
- "Unmediated Communication in Repeated Games with Imperfect Monitoring", (with Jose Enrique Vila). *Games and Economic Behavior*, vol.46 (1), pp. 143-173 (2004).
- "Computational Complexity and Communication: Coordination in two-player Games" (with Jose Enrique Vila) *Econometrica*, vol. 70, pp. 1893-1927, (2002).
- "A Model of Multiproduct Price Competition" (with Y. Tauman y J. Watanabe), *Journal of Economic Theory*, 77, pp. 377-401 (1997).
- "Duopoly Signal-Jamming" (with L. Mirman and L. Samuelson), *Economic Theory*, Vol. 3, pp. 129-149 (1993).
- "Monopoly Experimentation" (with L. Mirman and L. Samuelson), *International Economic Review*, 34, pp. 549-563 (1993).

Book chapters:

- Urbano A. "La Economía Experimental en España" Prefacio. In **Economía Experimental y del Comportamiento**, Antoni Boch, ed. September 2011
- Urbano, A. "Bayesian-Nash Equilibrium". In **An Eponymus Dictionary of Economics: A Guide to Laws and Theorems Named after Economists**, Julio Segura y Carlos Rodríguez Braun (eds.). Edward Elgar, Cheltenham, UK, December 2004
- F. Caballero and A. Urbano. "Is there an Economic Rationale for the Liberalisation of Telecommunications Infrastructures?" in **The Economics of Information Society**. European Communities, ISBN: 92-827-9523-3, Luxembourg, 1997.
- G. Olcina and A. Urbano. "Mercados y Reputación". In **Lecturas en Economía, Libro-Homenaje a L. Lumbreras**, U. del País Vasco, ISBN: 84-7585-454-0, Bilbao, 1993.

### Submitted papers and papers under revision:

- "Ducking DataCollection (with Simon Anderson and Nathan Larson), 2020. Mimeo.
- "Multiproduct trading of indivisible goods with many seller and buyers" (with I. Arribas). 2020. Mimeo.
- "Consumers' privacy concerns and price dispersion among market channels" (with Mariola Sánchez), 2020. Working paper ERI-CES, 2020.
- "Local coordination and global congestion in random networks", with (I. Arribas), 2016, WP ERI-CES 08/2014.
- "Network Performance under Attacks" (with Victor Luna and Iván Arribas), 2020, mimeo.

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### Thesis Adviser

- Gonzalo Olcina Vauterén (1992): "Introspección y Selección de Equilibrios en Juegos no cooperativos".
- M<sup>a</sup> Dolores Alepuz Chaqués (1992): "Aprendizaje estratégico y competencia de mercado en modelos de duopolio".
- Rosario Sánchez Perez (1994): "Salarios de Eficiencia y desempleo: Evidencia Empírica para el sector industrial español".
- Delfina Soria Bonet (1998): "Ensayos sobre la Teoría del Arrepentimiento y la Teoría de la Decepción".

- José Enrique Vila Gisbert (1998): "Comunicación Descentralizada en Juegos Bipersonales".
- Penélope Hernández Rojas (2000): "Autómatas, Comunicación y Complejidad".
- Iván Arribas Fernández (2002): "Comportamiento errático y estrategias cíclicas. Juegos con horizonte probabilístico. Equilibrios de mercado y programación entera".
- Alejandro Barrachina (2012): "Theoretical Models of Industrial Espionage", co-director: Y. Tauman. International mention.
- Ignacio Nadal Moriana (2013): "The Economics of Platform Competition: Compatibility, Standardization and Piracy", co-director: R. Moner-Colonques. International mention.
- M<sup>a</sup> Dolores Sanchez Romero (2019): "Consumers' privacy, selling of information, and security in digital markets". International mention.
- Ernesto Mesa Vazquez (2019): "Rational herding in crowdfunding, social preferences under uncertainty and overplacement: A behavioral approach". International mention. Co-director: Irene Comeig.

### Thesis in progress:

- Victor Luna Tarrega: "Robust Networks"
- Lucia Desamparados Pinar: "Zero-Rating Internet platform formation: A behavioral approach"

### Selected Competitive Research Projects (since 2000)

**Project:** "Complejidad Computacional y Comunicación Interactiva en el diseño de mecanismos para los mercados públicos y privados. Una aplicación a las subastas públicas y a las subastas en línea. Ministerio de Ciencia y Tecnología. Proyecto de investigación n<sup>o</sup>:BEC2000-1429. Desde: 15/06/2001 hasta: 16/06/2004 Investigador responsable: Amparo Urbano Salvador.

**Project:** "Formación dinámica de redes. Redes de comunicación con restricciones de complejidad computacional. Aplicaciones a las organizaciones y a los mercados". Ministerio de Ciencia y Tecnología. Proyecto de investigación n<sup>o</sup>:SEJ2004-07554. Desde: 24/12/04 hasta: 24/12/07. Investigador responsable: Amparo Urbano Salvador.

**Project:** "Nuevo Laboratorio de Investigación en Economía Experimental y Computacional. Ministerio de Ciencia y Tecnología. Fondos Feder. Desde: 30/07/04 hasta: 30/07/09. Investigador responsable: Amparo Urbano Salvador.

**Project:** "Redes, incentivos e información en procesos complejos de interacción socio-económica" Ministerio de Educación y Ciencia. Proyecto de investigación nº:SEJ2007-66581. Desde: 24/12/07 hasta: 24/12/10. Investigador responsable: Amparo Urbano Salvador.

**Project:** "Grupo de Investigación en Economía del Comportamiento Estratégico". Supporting Institution: Consellería de Cultura, Educación y Ciencia. Generalitat Valenciana. PROMETEO 2009/068. 2010-2013. PROMETEO II 2014/054. 2014-2017.

**Project:** "Redes de agentes estratégicos: Estructuras modulares, protocolos de comunicación y formación endógena. Aplicaciones a los mercados y a las instituciones". Ministerio de Ciencia e Innovación. Proyecto de investigación nº:SEJ2007-66581. Desde: 01/01/2011 hasta: 31/12/2013.

**Project:** "Grupo de Investigación en Economía del Comportamiento Estratégico". Supporting Institution: Consellería de Cultura, Educación y Ciencia. Generalitat Valenciana. PROMETEO 2009/068. 2010-2013. PROMETEO II 2014/054. 2014-2017.

**Project:** Redes de excelencia ISIC en la Comunitat Supporting Institution: Consellería de Cultura, Educación y Ciencia. Generalitat Valenciana. 2012-2015. Investigador responsable: Amparo Urbano Salvador.

**Project:** "Comunicación digital, ciberseguridad y confianza en mercados digitales en red. Políticas de regulación. Ministerio de Economía y Competitividad. Proyecto de investigación nº:ECO 2013-46550-R. Desde: 01/01/2014 hasta: 31/12/2016. Investigador responsable: Penélope Hernández y Amparo Urbano Salvador.

**Project:** "La Economía de la privacidad, la adquisición de información y la discriminación de precios. El micro-mecenazgo y la información asimétrica. Diseño óptimo" Ministerio de Economía y Competitividad. Proyecto de investigación nº:ECO 2016-75575-R. Desde: 01/01/2017 hasta: 31/12/2019. Investigador responsable: Amparo Urbano Salvador y Jose E. Vila.

**Project:** COST Action CA16228: European Network for Game theory (GAMENET), European Union in the framework of Horizon 2020. Desde 2017 hasta: 2020. Investigadores Principales: Chair: Mathias Staudigl (Maastricht University). Marco Scarsini (LUISS Rome) is the Vice-Chair. The action will be complemented by the STSM Coordinator Yuval Heller (Oxford University).

**Project:** "Economía del Comportamiento estratégico: privacidad y big data, estrategias de innovación e internacionalización, movilidad y redes de transporte, cambio climático, sistemas de incentivos y brecha de tiempo en el hogar entre hombres y mujeres". PROMETEO 2019 (proyectos de I+D+i para grupos de investigación de excelencia). Consellería de Cultura, Educación y Ciencia. Generalitat Valenciana. Importe: 184.568,00. Duración: 2019-2022. Investigador responsable: Amparo Urbano Salvador (20 investigadores).

**Project:** "Transmisión de información entre empresas y discriminación de precios, políticas de opt-in y opt-out, y bienestar social. Diseño óptimo. Ciberseguridad. Género y brecha digital" Proyecto de investigación PID2019-110790RB-I00. Desde: 01/01/2020. Investigador responsable: Amparo Urbano Salvador y Jose E. Vila.



## Invited Academic Conferences (since 2000)

- "Multiproduct trading of indivisible goods with many sellers and buyers" Invitación especial al Workshop in Honor of Carmen Herrero. 8-9, Abril 2018
- "Entry with two-Correlated signals," Worshop ANAECO 2015, Valencia, 8-10 de Julio 2015
- "Local Coordination and Global Congestion in Random Networks", Conferencia sobre Axiomas, métodos y resultados en economía normativa, Granada 22-24 de Mayo, 2014.
- "Local Coordination and Global Congestion in Random Networks", III International Meeting of the Bank of Spain Chair in Computational Economics, October 16th, Castellón, Spain. 2014.
- "Local Coordination and Global Congestion in Random Networks" Seminario Game Theory Seminars, LUISS. (Roma, Italia), Abril 2013.
  
- "Local Coordination and Global Congestion in Random Networks", International Workshop on Game Theory and Economic Applications of the Game Theory Society, celebrating the 70th Birthday of Marilda Sotomayor (São Paulo), School of Advanced Sciences on Game Theory and Economic Applications ), University of Sao Paulo, Brazil, 2014.
- "Local Coordination and Global Congestion in Random Networks" Seminario: Game Theory Seminars, University of East Anglia. Norwich (Reino Unido), Mayo 2013
- "Coordination and Congestion" Seminario: Game Theory Seminars, University of the Vasc Country. Mayo, 2012.
- Chair of the Presidential Address, XXXVI Simposium of the Spanish Economic Association, SAEe, Málaga, 2011.
- "Group Connectivity and Cooperation". SEA Presidencial Address. XXXV Simposium of the Spanish Economic Association, SAEe, Madrid, 2010.
- "Grammar and Language: An Equilibrium Approach", Plenary Conference, XIX International Conference on Game Theory, Stony Brook, USA, 2009.
- "Efficient Mixed-Bundling", Barcelona JOCS. 2005
- "A Communication Protocol for Random Consensus in the Coordinated Attack problem" CORE, Economic Theory Seminar, :Louvain-la-Neuve, Belgium, 2003

- "Noisy Communication, Séminaire "Théorie des Jeux", Institute Henri Poincare, Paris, 2002.
- "Multiproduct Competition, Nash Equilibria and some Assignment Problems", Colloquium du CERMPEN (Centre de Recherche de Mathématiques, Statistiques et Economie mathématique), Maison des Sciences Economiques, Université de Paris, 2002.
- "Computational Complexity in Games, Key Speaker. Workshop on Game Theory and Applications. Lisbon, Portugal, 2001.
- "Computational Complexity and Communication", Center for Rationality and Interactive Decision. Jerusalem, 2000.