

CURRICULUM VITAE – CARMEN HERRERO

OCTOBER 2016

PROFESSIONAL ADDRESS

Universidad de Alicante
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DEGREES

Degree in Mathematics, Universidad Complutense de Madrid, 1970.
Ph D in Mathematics, Universidad de Valencia., 1979
Honorary Doctorate, Universidad de Granada, 2014

CURRENT POSITIONS

Professor of Economics, Universidad de Alicante, from 1985
Researcher, Instituto Valenciano de Investigaciones Económicas, from 1990.

PREVIOUS POSITIONS

Visiting Professor, University of Vienna, 2014
Visiting Professor, Università LUISS Guido Carli, Roma, 2013
Visiting Professor, Institute of Economic Analysis, Barcelona (Spain), 2011-2012
Advisor, Ministry of Science and Innovation, Madrid, 2005-006
Visiting Professor, Institute for Advanced Studies, Vienna (Austria), 1998, 2010
Visiting Scholar, University of Rochester (USA), 1998
Visiting Professor, Universitat Autònoma de Barcelona (Spain), 1997, 2010
Visiting Scholar, University of California, Davis (USA), 1994
Visiting Scholar, Institute for Advances Studies, Vienna (Austria), 1994
Visiting Scholar, Manchester University (UK), 1989
Visiting Scholar, European University Institute, Florence (Italy), 1987
Associated Researcher, CSIC, Barcelona, 1986
Senior Associated Member, St. Antony's College, Oxford (UK), 1985
Assistant Professor, Universidad de Alicante, 1982-1985
Teaching Assistant, Universidad de Valencia, 1975-81

MAIN FIELDS OF RESEARCH

- Quantitative Economics
- Game Theory
- Fairness
- Health Economics

PUBLICATIONS

BOOKS AND BOOK CHAPTERS

Qaly-based Cost-Effectiveness Analysis, **Adler, M, and Fleurbaey, M. (eds), The Oxford Handbook of Well-being and Public Policy**, Chap. 6, Oxford University Press, 2016 (with JL. Pinto-Prades and JM Abellán)

La Medición del Bienestar y el Bien Vivir, in **Buen Vivir en Ecuador: Experiencias y Metodologías Internacionales de Medición del Bienestar**, pp. 176-196, INEC, Quito, 2015

Desarrollo Humano en España, 1980-2011, Fundación Bancaja, Valencia, 2013 (with A. Soler & A. Villar)

Qaly-Bases Cost-Effectiveness Analysis, **Adler, M, and Fleurbaey, M. (eds), The Oxford Handbook of Well-being and Public Policy**, Chap. 6, Oxford University Press, 2016 (with JL. Pinto-Prades and JM Abellán)

Pobreza en España, 1980-2011, Fundación Bancaja, Valencia, 2013 (with A. Soler y A. Villar)

Desarrollo Humano en España, 1980-2007, Fundación Bancaja, Valencia, 2010 (with A. Soler & A. Villar)

Utility Independence in Health Profiles: An Empirical Study, **Ulrich Schmidt and Stefan Traub (eds):"Advances in Public Economics: Utility, Choice, and Welfare – A Festschrift in Honor of Christian Seidl"**, Dordrecht: Springer Economics, pp.135-150, 2005 (joint with A.M. Guerrero).

Siniestralidad vial en España y en la Unión Europea, 1997-2007, Fundación BBVA, 2011,(with JM Abellán, P.Cubí-Mollá, J.E. Martínez, I.Mendez, F. Sanchez)

Evaluación de Riesgos y del Impacto de los Accidentes de Tráfico en la Salud de la Población Española, 1996-2004, Fundación BBVA,2008 (joint with P. Cubí)

Capital Humano y Desarrollo Humano en España, sus Comunidades Autónomas y Provincias 1980-2000, Bancaja e Ivie, 2004, (joint with A. Soler and A. Villar).

Equal Awards vs Equal Losses: Duality in Bankruptcy, in M.R. Sertel and S. Koray (eds), **Advances in Economic Design**, Springer-Verlag, Berlin, 2003, pp.413-426.

The Equal-Distance Rule in Allocation problems with Single-Peaked Preferences, Aliprantis and Yannelis (eds), **Current Trends in Economics, Theory and Applications**, pp. 215-223, Spriger-Verlag, Berlin, 1998, (joint with A. Villar).

La Asistencia Sanitaria como un Problema de Asignación en Presencia de Objetivos Inalcanzables, **Análisis Económico de la Sanidad**, G.López Casanovas (Ed.), Barcelona, Servei Catalá de la Salut, Barcelona, pp. 145-164, 1994, (joint with A.Villar).

Matrices Semipositivas y Modelos Lineales, Departamento de Publicaciones, Universidad de Alicante, 1984 (joint with J.A. Silva , A. Villar).

Cálculo en Variedades Reales, Departamento de Publicaciones, Universidad de Alicante, 1982 (joint with M.Fdez-Castillo, J.A. Mira, A. Pérez).

PAPERS

Analysis of Group performance with categorical data when agents are heterogeneous: the evaluation of scholastic performance in the OECD trough PISA 2012, **Economics of Education Review**, 40: 140-151, 2014 (joint with I. Méndez & A. Villar)

Desarrollo y pobreza en España: el impacto de la crisis. **Papeles de Economía Española**, 138, pp: 98-113, 2014 (joint with A. Soler, A. Villar)

Equality of Opportunity with categorical data, **Lecturas de Economía**, 81, pp: 9-30, 2014 (joint with A. Villar)

On the comparison of group performance with categorical data, **PLOSOne**, 8 (12) e84784. doi: 101371/journal.pone.0084784, 2013 (joint with A. Villar)

Alvin Roth y Lloyd Shapley, Premios Nobel de Economía 2012, **Gaceta de la Real Sociedad Matemática Española**, 16(3), 2013

Un ejemplo de ingeniería económica. **Economistas** 2013, 135: 285-289

Quality of Life Lost Due to Non-Fatal Road Traffic Injuries, **Health Economics**, 21: 528-550, 2012 (joint with P. Cubí-Mollá)

A Newer Human Development Index, **Journal of Human Development and Capabilities**, 13(2): 247-268, 2012 (with R. Martínez & A. Villar)

Allocation Problems with Indivisibilities when preferences are single-peaked, **SERIEs**, 2(4): 453-467, 2011,(with R. Martínez)

The Rights-Egalitarian Solution for NTU Sharing Problems, **International Journal of Game Theory**, 39 (1-2), pp. 137-150, 2010 (joint with A. Villar)

El Índice de desarrollo humano: críticas y alternativas, **Matematicalia**, vol 6, num3, sep 2010 (joint with A. Soler)

Multidimensional Social Evaluation: An Application to the Measurement of Human Development, **Review of Income and Wealth**, 56(3): 483-497, 2010 (joint with R. Martínez and A. Villar)

On the Adjudication of Conflicting Claims: An Experimental Study, **Social Choice and Welfare**, 34 (1): 145-179, 2010 (with G. Ponti & J: Moreno-Tertero).

Estimating Production Costs in the Economic Evaluation of Health Care Programs, **Health Economics**, 18, pp. 21-35, 2009 (with J.D. Moreno)

- Opportunity Analysis of Newborn Screening Procedures, **Review of Economic Design**, 12, pp. 259-277, 2008 (with J.D. Moreno-Ternero)
- Up Methods in the Allocation of Indivisibilities when Preferences are Single- Peaked, **TOP**, 16, pp. 272-283, 2008 (with R. Martínez)
- Egalitarian Rules in Claims Problems with Indivisible Goods, **Social Choice and Welfare**, 30, pp. 603-617, 2008 (with R. Martínez)
- Decision Theory and probabilistic insurance: an experimental test, **Spanish Economic Review**, 8, pp. 35-52, 2006 (with J. Tomás and A. Villar)
- A New Outcome Measure for Screening Programs, **Economics Bulletin**, 9, pp.1-8, 2005, (with J.D. Moreno).
- A Semi-separable Utility Function for Health Profiles, **Journal of Health Economics**, 24, pp.33-54, 2005, (with A.M. Guerrero)
- Hospital Costs and Social Costs. A Case Study of Newborn Hearing Screening, **Investigaciones Económicas**, 29, pp.203-216, 2005, (with J.D. Moreno).
- Using a Point System in the Management of Waiting List: The Case of Cataracts, **Social Sciences and Medicine**, 59, pp.585-594, 2004, (with E. Rodríguez-Minguez and J.L. Pinto-Prades).
- A Decent Proposal, **Spanish Economic Review**, 6, pp.107-125, 2004, (with L. Corchón).
- Optimal Sharing of Surgical Costs in the Presence of Queues, **Mathematical Methods of Operations Research**, 59, pp. 435-446, 2004, (with P. González).
- A Complete Characterization of Economies with the Nonsubstitution Property, **Economic Issues**, 8, pp.63-70, 2003 (with T. Fujimoto, R. Ranade, J.A. Silva and A. Villar).
- Sustainability in Bankruptcy Problems, **TOP** 10 (2), pp. 261-273, 2002, (with A. Villar).
- A proposal to Solve the Comparability Problem in Cost-Utility Analysis, **Journal of Health Economics**, 21, pp.397-403, 2002 (with Han Bleichrodt & J.L. Pinto).
- General Allocation Problems with Single-Peaked Preferences: Path-Independence and Related Topics, **Spanish Economic Review**, 4, pp.19-40, 2002.
- The Three Musketeers: Four Classical Solutions to Bankruptcy Problems, **Mathematical Social Sciences**, 42, pp.307-328, 2001, (with A. Villar).
- An Alternative Characterization of the Equal-Distance Rule in Allocation problems with Single-Peaked Preferences, **Economics Letters**, 66, pp. 311-317, 2000, (with A.Villar).

Lagrangean Conditions for Consumers with Nonrepresentable Preferences, **Economic Theory**, 16, pp. 483-487, 2000, (with J.M. Gutiérrez).

Set Valued Utilities for Partial Orderings, **Journal of Mathematical Psychology**, 43, pp: 433-440, 1999, (with B. Subiza).

Individual Rights and Collective Responsibility: The Rights-Egalitarian Solution, **Mathematical Social Sciences** 37, pp: 59-77, 1999, (with M. Maschler, A.Villar).

Bargaining with Claims in Economic Environments, **Revista Española de Economía**, 15, pp: 3-13, 1998.

Ranking Profiles of Opportunity Sets on the Basis of the Common Opportunities, **Mathematical Social Sciences**, 35, pp. 273-289, 1998, (with I. Iturbe-Ormaetxe, J. Nieto).

Endogeneous Reference Points and the Adjusted Proportional Solution for Bargaining problems with Claims, **Social Choice and Welfare**, 15, pp. 113-119, 1998.

Equitable Opportunities: An Extension, **Economics Letters**, Vol. 55, No.1, pp.91-95, 1997.

Capabilities and Utilities, **Economic Design**, 2, pp. 69-88, 1996.

Rational Equal-Loss Solutions for Bargaining Problems, **Mathematical Social Sciences**, 26, pp. 273-286, 1993, (with M.C. Marco).

El Reparto del Fondo de Compensación Interterritorial entre las Comunidades Autónomas, **Hacienda Pública Española**, 1, pp.113-125, 1992, (with A. Villar).

Sobre la Distribución Justa de un Pastel en Presencia de Externalidades, **Investigaciones Económicas**, vol 16, pp. 393-400, 1992, (with A. Villar).

Asignaciones Igualitarias y Eficientes en presencia de Externalidades, **Revista Española de Economía**, vol 9, n.1, pp.115-127, 1992, (with A. Villar).

Vector Mappings with Diagonal Images, **Mathematical Social Sciences**, 22, pp.57-67, 1991, (with A. Villar).

On the Equivalence between Strong Solvability and Strict Semimonotonicity for some Systems involving Z-functions, **Mathematical Programming**, 49, pp. 371-379, 1991, (with J.A. Silva).

Comparaciones de Renta Real y Evaluación del Bienestar, **De Economía Pública**, 2, pp.79-101, 1989, (with A. Villar).

A Characterization of Economies with the Nonsubstitution Property, **Economics Letters**, 26, pp. 147-152, 1988, (with A. Villar).

General Equilibrium in a Nonlinear Leontief Framework, **The Manchester School**,

56, pp. 159-166, 1988, (with A. Villar).

Teorías Alternativas de la Utilidad Esperada. Una Interpretación en Términos de Bienestar Social, **Investigaciones Económicas**, 11, pp. 375-398, 1987.

The Perron-Frobenius Theorem for Set-Valued Mappings, **The Kagawa University Economic Review**, 59, pp. 99-111, 1986, (with T. Fujimoto).

Comparing Solutions of Equation Systems involving Semipositive Operators, **Portugalliae Mathematica**, 43, n. 1, pp. 131-137, 1985-86, (with T. Fujimoto, A. Villar).

A Sensitivity Analysis in a Nonlinear Leontief Model, **Zeitschrift fur Nationalokomie**, 45, n. 1, pp. 23-26, 1985, (with T. Fujimoto, A. Villar).

The Positiveness and the Uniqueness of a Solution, **Economics Letters**, 17, pp.137-139, 1985, (with T. Fujimoto).

A Sensitivity Analysis for Linear Systems involving M-matrices and its Applications to the Leontief Model, **Linear Algebra and its Applications**, 64, pp. 85-91, 1985, (with T. Fujimoto, A. Villar).

Un modelo Input-Output no Lineal, **Revista Española de Economía**, 2 (2), pp.334-345, 1985, (with A. Villar).

A Metatheorem on the Uniqueness of a Solution, **The Kagawa University Economic Review**, 57, 1984, (with T. Fujimoto).

Análisis de la Existencia de Soluciones con significado económico para Sistemas Lineales, **Cuadernos de Economía**, 12 (33), pp. 29-52, 1984.

Technical changes and their effects on the Price Structure, **Metroeconomica**, 35, n.1-2, pp. 123-127, 1983 (with T. Fujimoto, A. Villar).

Nota sobre la Hipótesis de Continuidad en los Conjuntos de Producción y Consumo, **Estadística Española**, 96, pp. 63-69, 1982.

La Función de Consumo en Modelos Multisectoriales de Renta y Producción. Análisis Dinámico, **Estadística Española**, 93, pp. 71-86, 1982.

Espacios de Funciones Holomorfas con Desarrollo Asintótico, con Valores Vectoriales, **Revista de la Real Academia de Ciencias Exactas**, R.A.C.E., 76 (1), pp.49-65, 1982.

La Selección de Técnicas de Modelos Multisectoriales de Producción Simple, **Investigaciones Económicas**, 14, pp. 117-134, 1981 (with I. Jimenez- Raneda, A. Villar).

Espacios de Funciones Holomorfas cuyas Derivadas se Extienden a un Punto de la Frontera, **Revista de la Real Academia de Ciencias Exactas**, 75 (3), pp.743-755,1981.

The Selection of Techniques in Multisectoral Models of Single Production. A Mathematical Revision, **Metroeconomica** 32, vol. 2-3, pp. 155-171, 1980 (with I. Jimenez-Raneda, A. Villar).

WORKING PAPERS & MIMEOS

An Endogeneous Scoring Rule, Mimeo, 2014

Ranking Distributions of Monotone Attributes, EUI Working Paper ECO 014-06, European University Institute, 2014 (with A. Villar)

Relative Equality of Opportunity: A Statistical Approach, INDICSER wp, European Commission (with I. Méndez y A. Villar), 2012

Improving the measurement of Human Development, Human Development Report Research Paper 2010/12 , 2010 (joint with R. Martínez & A. Villar)

Capabilities and Opportunities in Health, WP-FBBVA, 10, 2008 (joint with J.L. Pinto)

Managing waiting lists in a fair way, WP-FBBVA, 7, 2008

SEMINARS

Universidad de Navarra, April 2016

Universidad Católica de Chile, Santiago, March 2016

Universidad de Zaragoza, March 2015

Universidad Autónoma de Madrid, March 2015

Universidad de Salamanca, October 2014

University of Kiel, July 2014

Universidad de Granada, April 2014

University of Vienna, April 2014

University of Cardiff, February 2014

University of Glasgow, February 2014

University of Exeter, UK., May 2013,

Universitat Jaume I, Castellón, May 2013

University LUISS Guido Carli, Roma, April 2013

European University Institute, Florence, April 2013

Universitat de Barcelona, January 2012, January 2013

ERICES, Universidad de Valencia, November 2012

Universidad Pública de Navarra, November 2012

Universidad del País Vasco, June 2012

Universitat de Girona, April 2012

Universitat Autònoma de Barcelona, April 2012

Universidad de Barcelona, March 2012

Universidad de Murcia, February 2012

Institut de Anàlisi Econòmica, Barcelona, November 2011

Universidad del País Vasco, June 2011

LUISS Guido Carli University (Rome), May 2011

University of Vienna & Institute of Advanced Studies, October 2010,
Universitat Autònoma de Barcelona, November 2010
Universidad de Zaragoza, 2009, 2010
Universidad de Malaga, June 2010
Universidad de Granada, May 2010
City University, London (UK), September 2009
Universidad Complutense de Madrid, 1983, 1985, 1987, 1991, 1995.
Universidad de Valencia, 1985, 1987, 1989.
Universidad Autónoma de Barcelona, 1985, 1986, 1987, 1992, 1995, 1997.
Universidad Autónoma de Madrid, 2003.
Universidad del País Vasco (Bilbao), 1985, 1989, 1995, 1999, 2003, 2008.
University of Rochester (USA), 1998.
University of Manchester (U.K.), 1987, 1990.
European University Institute, Florence (Italy), 1987.
Instituto de Estudios Fiscales (Madrid), 1990.
Universidad de Santiago de Compostela, 1993, 2003.
Universidad Carlos III (Madrid), 1993, 1995, 1997.
University of York (U.K.), 1993.
University College, London (U.K.), 1993.
University California-Davis (USA), 1994.
Universidad de Guadalajara (México), 1994. Colegio de México (México DF), 1994.
University of Copenhagen (Denmark), 1994.
University of Kiel, (Germany), 2003.
Institute for Advanced Studies (Vienna-Austria), 1994, 1998, 1999.
University of Vienna (Austria), 1994, 1998, 1999.
Universidad Pública de Navarra, 1995, 1996, 1997, 1999, 2000, 2007.
CERAS, Ecole Nationale des Ponts et Chaussées, Paris (France), 1996.
Ethical Seminar, La Defense, Paris (France), 1996.
Barcelona Jocs, 1997.
Universidad de Alicante, 1998.
Universidad de Málaga, 1999.
Universidad de Sevilla, 2000, 2002, 2004.
Universitat Jaume I, 2001.
Universidad de Vigo, 2002.
Universidad de Murcia, 2002, 2003.
Universidad Pablo de Olavide, 2002, 2005, 2006.
Universidad Rovira i Virgili, Mayo 2006
Universidad de Santiago de Compostela, Mayo 2006
Oficina Económica de la Presidencia del Gobierno (OEP), Madrid, Mayo 2007
Oficina Económica de la Presidencia del Gobierno (OEP), Madrid, Abril 2008
Universidad de Salamanca, Enero 2009

THESIS SUPERVISION

-Scaling Methods, Health Preferences and Health Effects, **Patricia Cubí**, Universidad de Alicante, 2009.

-Social Decisions: Equity and Power, **Ricardo Martínez**, Universidad de Alicante, 2006.

- *Problems on Distributive Justice*. **Juan de Dios Moreno-Terner**, Universidad de Alicante, 2003.
- *Public Provision of Sanitary Services: Economic Aspects*. **Paula Gonzalez-Rodriguez**, Universidad de Alicante, 2002.
- *Independencia Intertemporal en la Valoración de Perfiles de Salud*. **Ana María Guerrero Agós**, Universidad de Alicante, 1999.
- *Incertidumbre Individual y Emparejamiento Aleatorio en Económicas con un continuo de Agentes*. **Carlos Alós Ferrer**, Universidad de Alicante, 1998.
- *Meta Bargaining Theory*. **Elisabeth Naeve-Steinweg**, Universität Bielefeld, 1997.
- *Teoría del Arrepentimiento. Resultados Teóricos y Experimentales*. **Josefa Tomás**, Universidad de Alicante, 1994.
- *Ensayos sobre la Teoría del Arrepentimiento. Aplicación a las Decisiones de Seguro*. **Ramón Sirvent**, Universidad de Alicante, 1994.
- *Igual Pérdida Racional en Modelos de Negociación*. **Maria del Carmen Marco**, Universidad de Alicante, 1993.
- *Representaciones Numéricas de Preferencias Cuasitransitivas y Acíclicas*. **Begoña Subiza**, Universidad de Alicante, 1992.
- *Resolubilidad en Modelos Lineales de Producción Conjunta*. **Josep Enric Peris**, Universidad de Alicante, 1987.
- *Existencia de Soluciones Semipositivas para Sistemas lineales y No Lineales Vinculados a Modelos de Leontief*. **Jose Angel Silva**, Universidad de Alicante, 1985.

DISTINCTIONS

Honorary Degree in Economics, Universidad de Granada, May 2014

ArbolMat, joint venture of the Real Sociedad Matemática Española and Universia, September 2014

Fellow of the Spanish Economic Association, 2005

Vicepresident of ASSET (South European Association of Economists), 2013-2014

President of ASSET (South European Association of Economists), 2015-2016

President of the Spanish Economic Association, 2000

OTHERS

Pannel Member European Networks for Training through Research, 1995,1999

Pannel Member Marie Curie Fellowships,2000

Head of the Economics Department, Universidad de Alicante, 1986-1990, 1992-1994,1999-2002, 2007-2008

Editor of the working paper series "A Discusión", IVIE (1984-1990) (1992-).

Referee of the Journals: *Journal of Health Economics, Games and Economic Behavior, SERIEs, Investigaciones Económicas, Spanish Economic Review, Portugallia Mathematicae, Manchester School, Econometrica, Social Choice and Welfare, Mathematical Social Sciences, Metroeconomica, Journal of Economics, Review of Economic Studies, Journal of Applied Economics, Economic Theory, Health Economics, Theory and Decision, Health Economics, Social Sciences an Medicine,* as well as of the *Comisión Interministerial de Ciencia y Tecnología, and of the European Comission.*

Member of the editorial board: Revista Española de Economía (1990-1992), Social Choice and Welfare (1996-2008), TOP (2001- 012)

Member of the Scientific Comité: Gaceta Matemática .(2007-)

Coordinator of the Quantitative Economics Doctorate (QED) Universidad de Alicante, Universität Bielefeld, Universitat Wien, University of Copenhagen, Universidad Nova de Lisboa and Universitá de Venezia (1990-1995).

Member of the FECYT Council, Fundación Española para la Ciencia y la Tecnología(2001-2002)

Member of the Spanish Commission of Science and Technology (2005-2010)

Member of the Academic Council of the Barcelona GSE (2010-)

Member of the Council of the Game Theory Society (2012-)

Member of the Comité Asesor de Infraestructuras Singulares (CAIS) (2006-2009)

Head of the "Comision de Acreditación for Full Professors in Social Sciences at a nacional level in Spain, ANECA, 2008-2010