

## **Annick Laruelle**

Ikerbasque Research Professor (since 2008)

Departamento de Fundamentos del Análisis Económico I

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Research fields: Game Theory and Social Choice

Ph.D. in Economics, Catholic University of Louvain (UCL), Belgium

### **Academic Experience**

- 2005-2008: Invited professor (professeur associé),  
Dep. of Economics, University of Caen Basse-Normandie, France.
- 2001-2005: Ramón y Cajal research fellow,  
Dep. of Foundations of Economic Analysis, University of Alicante, Spain.
- 2000-2001: Post-doctoral fellow,  
Dep. of Applied Economics IV, University of the Basque Country (UPV/EHU), Spain.
- 1998-2000: Post-doctoral fellow,  
Dep. of Foundations of Economic Analysis, University of Alicante, Spain.
- 1993-1998 : Teaching and research assistant,  
Dep. of Economics, Catholic University of Louvain (UCL), Belgium.

### **Academic Services**

- 2013-2015: Director of a Master at the University of the Basque Country (UPV/EHU)
- 2012-2017: Member of the Council of the Society for Social Choice and Welfare
- 2012-2016: Member of the Steering Committee of COST Action IC1205

### **Education**

Catholic University of Louvain (UCL), Belgium.

- 1993-1998, Ph.D. in Economics: Game Theoretical Analysis of Decision-Making Processes with some Applications to the European Union. Advisor: Pierre Dehez.  
Ph.D. Committee: Steven Brams (University of New York), Francesc Carreras (BarcelonaTech, UPC), Claude d'Aspremont (UCL), Jean-François Mertens (UCL).
- 1985-1991, Engineer in Applied Mathematics.

### **Visiting Positions**

- 2015, University of Cergy-Pontoise (3 weeks)
- 2007, University of Sabanci, Istanbul, Turkey (3 months).
- 2001-2002, University of the Basque Country (UPV/EHU), Bilbao, Spain (5 months).
- 1999, Tel Aviv University, Israel (2 months).
- 1995, Yrjö Jahnsson Foundation, Helsinki, Finland (3 months).

### **Book Published**

- 2008, *Voting and Collective Decision-Making: Bargaining and Power*, Cambridge University Press, Cambridge, New York. Joint with Federico Valenciano.

Reviews:

- 2012, Lindner, Ines, *Social Choice and Welfare* 38, 161-179.
- 2010, Josselin, Jean-Michel, *Public Choice* 143 (1-2), 259-261.
- 2010, Zwicker, William, *Games and Economic Behavior* 69, 517-522.
- 2009, Loewen, Peter John, *Canadian Journal of Political Science* 42, 818-819.

### **Articles Published**

- 2015, Emergence of cooperation in phenotypically heterogeneous populations: a replicator dynamics analysis.  
Joint with Andre Barreira da Silva Rocha and Ramón Escobedo.  
*Journal of Statistical Mechanics – Theory and Experiment* doi:10.1088/1742-5468/2015/00/000000
- 2015, Games with Perception. Joint with Elena Iñarra and Peio Zuazo-Garin.  
*Journal of Mathematical Psychology* 64-65, 58-65.
- 2014, Preference Intensity in Positional Voting.  
Joint with Esther Mata-Pérez, Ricardo Martínéz and Giovanni Ponti.  
*Theoretical Economics Letters* 4, 727-738.
- 2014, Disapproval voting: a characterization. Joint with Jose Carlos R. Alcántud.  
*Social Choice and Welfare* 43, 1-10.
- 2013, Evolution of Cooperation in the Snowdrift Game with Heterogeneous Population.  
Joint with Andre Barreira da Silva Rocha, *Advances in Complex Systems* 16(8).
- 2013, An axiomatization of success. Joint with Josune Albizuri.  
*Social Choice and Welfare* 41, 145-155.
- 2012, Artificial Distinction and Real Discrimination. Joint with Elena Iñarra.  
*Journal of Theoretical Biology* 305, 110-117.

- 2012, Quaternary dichotomous voting rules. Joint with Federico Valenciano. *Social Choice and Welfare* 38, 431-454.
- 2012, Preferences, Actions and Voting Rules, Joint with Alaitz Artabe and Federico Valenciano. *SERIEs* 3, 15-28.
- 2011, Turnout Intention and Social Networks. Joint with Constanza Fosco and Angel Sanchez. *Advances in Complex Systems* 14(1), 31-53.
- 2011, Majorities with a quorum, *Journal of Theoretical Politics* 23(2), 241-259. Joint with Federico Valenciano.
- 2011, Consensus versus dichotomous voting. Joint with Federico Valenciano. In: *Consensual Processes*, Herrera-Viedma, Enrique, José Luis García-Lapresta, Janusz Kacprzyk, Hannu Nurmi, Mario Fedrizzi, and Sławomir Zadrozny, eds., Springer Verlag. Series: *Studies in Fuzziness and Soft Computing*, Vol. 267, 135-143.
- 2010, Egalitarianism and utilitarianism in committees of representatives, Joint with Federico Valenciano. *Social Choice and Welfare* 35(2), 221-243.
- 2009, Cooperative bargaining foundations of the Shapley-Shubik index. Joint with Federico Valenciano. *Games and Economic Behavior* 65, 242-255.
- 2009, Voting and Power. Joint with Federico Valenciano.
  - In: *Essays in Honor of H. Nurmi, Vol. I, Homo Oeconomicus* 26(3/4), 455-469.
  - Reprint (2013) In: *Power, Voting, and Voting Power: 30 years after*, Holler, Manfred, Hannu Nurmi, eds, Springer-Verlag Berlin Heidelberg, 137-150.
- 2008, Bargaining in committees of representatives: the ‘neutral’ voting rule. Joint with Federico Valenciano. *Journal of Theoretical Politics* 20(1), 93-106.
- 2008, Noncooperative foundations of bargaining power in committees. Joint with Federico Valenciano. *Games and Economic Behavior* 63, 341-363.
- 2008, Potential, value and coalition formation. Joint with Federico Valenciano. *TOP* 16, 73-89.
- 2007, Bargaining in Committees as an extension of Nash’s bargaining theory. Joint with Federico Valenciano. *Journal of Economic Theory* 132(1), 291-305.
- 2006, Success versus decisiveness: conceptual discussion and case study. Joint with Ricardo Martínez and Federico Valenciano. *Journal of Theoretical Politics* 18(2), 185-205.
- 2005, Assessing success and decisiveness in voting situations. Joint with Federico Valenciano. *Social Choice and Welfare* 24, 171-197.
- 2005, Potential, and power of a collectivity to act. Joint with Federico Valenciano. *Theory and Decision* 58, 187-194.

- 2005, A critical reappraisal of some voting power paradoxes.  
Joint with Federico Valenciano. *Public Choice* 125(1-2), 17-41.
- 2004, Inequality in voting power. Joint with Federico Valenciano.  
*Social Choice and Welfare* 22, 413-431.
- 2004, On the meaning of the Owen-Banzhaf coalitional value in voting situations.  
Joint with Federico Valenciano.
  - *Theory and Decision* 56 (1-2), 113-123.
  - In: *Essays on Cooperative Games*, in honor of Guillermo Owen, Gambarelli Gianfranco, ed., Kluwer, Series Theory and Decision C, 36.
- 2004, On the difficulty of making decisions within the EU-25.  
Joint with Ricardo Martínez and Federico Valenciano.  
*International Journal of Organization Theory and Behavior* 7 (3), 575-588.
- 2003, Semivalues and Voting Power. Joint with Federico Valenciano.  
*International Game Theory Review* 5, 41-61.
- 2002, The EU Decision-Making Procedures: some Insight from Non Cooperative Game Theory. In: *Institutional Challenges in the European Union*, Hosli, Madeleine, Adrian Deemen and Mika Widgrén, eds., Routledge, 89-112.
- 2002, Different least square values, different rankings. Joint with Vincent Merlin.  
*Social Choice and Welfare* 19, 533-550.
- 2002, Inequality among EU citizens in the EU's Council decision procedure.  
Joint with Federico Valenciano. *European Journal of Political Economy* 18/3, 475-498.
- 2002, Power indices and the veil of ignorance. Joint with Federico Valenciano.  
*International Journal of Game Theory* 31, 331-339.
- 2001, Shapley-Shubik and Banzhaf indices revisited. Joint with Federico Valenciano.  
*Mathematics of Operations Research* 26, 89-104.
- 2001, Implementing democracy in indirect voting processes: the Knesset case.
  - In: *Power Indices and Coalition Formation*, Holler Manfred, and Guillermo Owen, eds., Kluwer Academic Publishers, 363-369.
  - 2003, *Homo Oeconomicus* 20(4), 493-498.
- 2000, Voting Power in a Sequence of Cooperative Games: The Case of EU Procedures.  
Joint with Mika Widgrén.
  - *Homo Oeconomicus* XVII, 67-84.
  - In: *Power Indices and Coalition Formation*, Holler Manfred, and Guillermo Owen, eds., Kluwer Academic Publishers, 253-271.
- 1999, Sous-représentation au Conseil des ministres européen? Quelques enseignements de la théorie des jeux.

In: Annales d'Etudes européennes de l'Université catholique de Louvain, Volume 3, éditions Bruylant, Bruxelles, 97-114.

- 1998, Is the Allocation of Voting Power among the EU States Fair?  
Joint with Mika Widgrén. Public Choice 94, 317-339.

### **Recent discussion papers**

- 2015, Ghost Seats in the Basque Parliament, Discussion Paper IL88/15, University of the Basque Country (UPV-EHU), Bilbao, Spain. Joint with Nora Ibarzabal.

### **Endorsement**

- 2011, Keith Dougherty, and Julian Edward, The Calculus of Consent and Constitutional Design, New York: Springer. Joint with Federico Valenciano.

### **Invited seminars**

- 2015, University of Cergy-Pontoise, France.
- 2015, University of Paris 1, France.
- 2014, University of Bayreuth, Germany.
- 2014, University Rovira I Virgili, Reus, Spain.
- 2013, Tinbergen Institute, Amsterdam, The Netherlands.
- 2013, Autonomous University of Barcelona (UAB), Spain.
- 2013, University of Caen Basse-Normandie, France.
- 2012, University of Louvain (UCL), Louvain-la-Neuve, Belgium.
- 2011, Jean Monnet University, Saint-Etienne, France.
- 2011, Basque Institute for Agricultural Research (NEIKER), Vitoria, Spain.
- 2011, Institute of Economic Analysis (IAE), Barcelona, Spain.
- 2011, Polytechnic School, Paris, France.
- 2011, University of Valladolid, Spain.
- 2011, Keele University, UK.
- 2010, University Rovira I Virgili, Reus, Spain.
- 2009, Catholic University of Louvain (UCL), Louvain-la-Neuve, Belgium.
- 2009, University of Salamanca, Spain.
- 2009, University of Augsburg, Germany.
- 2008, Public University of Navarre, Pamplona, Spain.
- 2008, Basque Center for Applied Mathematics (BCAM), Bilbao, Spain.
- 2008, University of Malaga, Spain.
- 2008, Miguel Hernández University, Elche, Spain.

- 2007, Bilkent University, Ankara, Turkey.
- 2007, Bilgi University, Istanbul, Turkey.
- 2007, Boğaziçi University, Istanbul, Turkey.
- 2006, University of the Basque Country (UPV/EHU), Bilbao, Spain.
- 2006, Sabancı University, Istanbul, Turkey.
- 2006, University of Cergy-Pontoise, Paris, France.
- 2006, Paris seminar in Game Theory, France.
- 2005, University of York, UK.
- 2005, Queen Mary College, London, UK.
- 2005, Royal Holloway College, University of London, UK.
- 2005, ROY seminar, Paris, France.
- 2004, GREQAM seminar, Marseille, France.
- 2004, ENSAI seminar, Rennes, France.
- 2004, University Bielefeld, Germany.
- 2003, Catholic University of Louvain (UCL), Louvain-la-Neuve, Belgium.
- 2001, Miguel Hernández University, Elche, Spain.
- 2001, University of Alicante, Spain.
- 2001, Catholic University of Louvain (UCL), Louvain-la-Neuve, Belgium.
- 2000, University of Genoa, Italy.
- 2000, University of the Basque Country (UPV/EHU), Bilbao, Spain.
- 1999, University of Santiago de Compostela, Spain.
- 1999, Catholic University of Louvain (UCL), Louvain-la-Neuve, Belgium.
- 1999, University of Tel Aviv, Israel.
- 1999, University of the Basque Country (UPV/EHU), Bilbao, Spain.
- 1999, University of Caen Basse-Normandie, France.
- 1998, University of Pompeu Fabra, Barcelona, Spain.
- 1997, University of the Basque Country (UPV/EHU), Bilbao, Spain.
- 1996, University of Helsinki, Finland.
- 1996, University Louis Pasteur, Strasbourg, France.
- 1995, Research Institute of the Finnish Economy, Helsinki, Finland.

#### **Presentations at conferences**

- 2014, 48<sup>th</sup> Congress of the International Society for Applied Ethology, Vitoria, Spain.
- 2013, Meeting of the Association of Southern European Economic Theorists, Bilbao.
- 2013, 14<sup>th</sup> Conference of the association for Public Economic Theory, Lisbon, Portugal.

- 2012, XXXVII Symposium of the Spanish Association of Economics, Vigo, Spain.
- 2012, Spanish Italian Netherlands Game Theory Meeting 8, Budapest, Hungary.
- 2012, 10<sup>th</sup> Logic and the Foundations of Game and Decision Theory, Seville, Spain.
- 2011, UECE Meeting, Game Theory and Applications, Lisbon, Portugal.
- 2011, Spanish Italian Netherlands Game Theory 7 (invited speaker), Paris, France.
- 2010, UECE Meeting, Game Theory and Applications, Lisbon, Portugal.
- 2010, X Meeting of the Society for Social Choice and Welfare, Moscow, Russia.
- 2009, New developments in Social Choice and Welfare Theories, Caen, France.
- 2007, Spanish Italian Netherlands Game Theory Meeting 3, Madrid, Spain.
- 2007, Logic, Game Theory and Social Choice 5, Bilbao, Spain.
- 2006, European Public Choice Society Meeting, Turku school of Economics, Finland.
- 2005, Spanish Italian Netherlands Game Theory Meeting 1, Maastricht, Netherlands.
- 2005, Logic, Game Theory and Social Choice 5, Caen, France.
- 2004, VII Meeting of the Society for Social Choice and Welfare, Osaka, Japan.
- 2003, Logic, Game Theory and Social Choice 3, Siena, Italy.
- 2003, XV Italian Meeting on Game Theory and Applications, Urbino, Italy.
- 2003, VI Meeting of the Society for the Advancement of Economic Theory, Greece.
- 2003, Dutch Congress of Mathematics, Nijmegen, Netherlands.
- 2002, 5<sup>th</sup> Spanish Meeting on Game Theory, Seville, Spain.
- 2001, XXVI Symposium on Economic Analysis (SAE), Alicante, Spain.
- 2001, First General Conference of the ECPR, Canterbury, U.K.
- 2001, Italian Meeting on Game Theory and Applications, Ischia, Italy.
- 2001, V Meeting of the Society for the Advancement of Economic Theory, Italy.
- 2000, XXV Symposium on Economic Analysis (SAE), Barcelona, Spain.
- 2000, First World Congress of the Game Theory Society, Bilbao, Spain.
- 2000, V Meeting of the Society for Social Choice and Welfare, Alicante, Spain.
- 1999, XXIV Symposium on Economic Analysis (SAE), Barcelona, Spain.
- 1999, Econometric Society European Meeting, Santiago de Compostela, Spain.
- 1999, Meeting of the European Public Choice Society (EPCS), Lisbon, Portugal.
- 1998, European Consortium on Political Research Joint Sessions, Warwick, U.K.
- 1997, International Symposium on Operational Research (SOR), Jena, Germany.
- 1997, 8<sup>th</sup> International conference in Game Theory, Stony Brook, U.S.A.
- 1996, 2<sup>nd</sup> Spanish Meeting on Game Theory, Santiago de Compostela, Spain.
- 1996, Game Theory and Economics, Saint-Petersburg, Russia.
- 1996, III Meeting of the Society for Social Choice and Welfare, Maastricht, NL.

### **Presentations at workshops**

- 2015, Computational Social Choice: Theory and Applications, Dagstuhl, Germany.
- 2015, Computational Social Choice fifth workshop (COST IC1205), Glasgow, UK.
- 2015, 35<sup>th</sup> Arne Ryde Symposium, Malaga, Spain.
- 2014, Computational Social Choice fourth workshop (COST IC1205), Sibiu, Romania.
- 2014, workshop on interactions between mathematics and the social sciences, Bilbao.
- 2014, Conference on Axioms, Results and Methods in Normative Economics, Granada.
- 2012, IX Meeting of the Spanish Network on Social Choice (REES), Salamanca, Spain.
- 2011, Tel Aviv International Workshop on Game Theory, Israel.
- 2010, VII Meeting of the Spanish Network on Social Choice (REES), Cartagena, Spain.
- 2009, VI Meeting of the Spanish Network on Social Choice (REES), Reus, Spain.
- 2009, 6<sup>th</sup> Workshop on voting power analysis, University of Warwick, Coventry, UK.
- 2008, Workshop on Power, games and institutions, University of Turku, Finland.
- 2008, Bosphorus Economic Design Workshop, University of Bilgi, Turkey.
- 2007, Theory and design of collective decision-making I, Université de Caen, France.
- 2005, 4<sup>th</sup> Workshop on voting power analysis, University of Warwick, Coventry, UK.
- 2004, International workshop on institutions and voting rules in the EU, Seville, Spain.
- 2004, 3<sup>rd</sup> Workshop on voting power analysis, London School of Economics, UK.
- 2002, ECPR workshop research sessions, University of Geneva, Switzerland.
- 2002, 1<sup>st</sup> Workshop on voting power analysis London School of Economics, UK.
- 2002, Modelling the European decision-making, San Sebastian, Spain.
- 2002, Theory of decision-making institutions and the EU Workshop, Turku, Finland.
- 2000, TMR Network "Cooperation and Information" Workshop, Caen, France.
- 2000, Cooperative Game Theory Workshop, University Miguel Hernandez, Spain.
- 1998, TMR Network "Cooperation and Information" Workshop, Paris, France.
- 1997, Public Economics Workshop, Louvain-la-Neuve, Belgium.

### **Organisation of conference**

- 2013, Meeting of the Association of Southern European Economic Theorists (member of the local and scientific committees), Bilbao, Spain.

### **Organisation of workshops**

- 2014, Computational Social Choice third workshop (COST IC1205), Maastricht, NL
- 2013, Computational Social Choice first workshop (COST IC1205), Oxford, UK.
- 2011, VIII Meeting of the Spanish Network on Social Choice (REES), Bilbao, Spain.



- 2008, Theory and design of collective decision-making II, Bilbao, Spain.
- 2002, Modelling the European decision-making, San Sebastian, Spain.

### **Teaching**

- 2010, 2014, University of the Basque Country (UPV/EHU), Spain.
- 2007, Sabancı University, Turkey.
- 2005-2008, University of Caen Basse-Normandie, France.
- 2001-2005, University of Alicante, Spain.
- 2000-2001, University of the Basque Country (UPV/EHU), Spain.
- 1993-1998, Catholic University of Louvain (UCL), Belgium.

### **Invited mini-courses**

- 2006, Boğaziçi University, Istanbul, Turkey.
- 2005, 2004, School of Statistic and Analysis of Information (ENSAI), Rennes, France.
- 2004, University of Bielefeld, Germany.

### **Organisation of summer school**

- 2014, Interdisciplinary Analysis of Voting Rules, Caen, France.
- 2002, EU's decision-making: assessment and design, San Sebastian, Spain.

### **Ph. D Supervisor (completed)**

- 2014, Peio Zuazo: Uncertain rationality and monitoring in game theory  
University of the Basque Country (UPV/EHU),  
Jointly with Elena Iñarra.
- 2013, Alaitz Artabe: Individuals' Choices: strategic voting and degree election.  
University of the Basque Country (UPV/EHU),  
Jointly with Javier Gardeazabal.

### **Ph. D Supervisor (in progress)**

- Nora Ibarzabal  
University of the Basque Country (UPV/EHU)
- Izaskun Zuazu  
University of the Basque Country (UPV/EHU),  
Jointly with Josu Arteche.

### **Ph. D Committee Member**

- 2015, Matias Nuñez  
HDR – « Habilitation à diriger des recherches »,  
University of Cergy-Pontoise, France.
- 2011, Gabriele Esposito,  
University Aix-Marseille, France.
- 2010, Sylvain Baumann,  
University of Le Havre, France.
- 2008, Jeremy Picot,  
University of Caen Basse-Normandie, France.

### **Communicating Science**

- 2014, Semana de la ciencia (talk for general audience on Social Choice), Bilbao.
- 2013, Jakinmina (conference for 15-years old students on Social Choice), Bilbao.
- 2010-2012, IKERBASQUE Training caravan (presentation of research in school for 15-16 years old students), Zarautz (2010), Oñati (2011), Elgoibar (2011), Zierbana (2011), Arratzu (2012), Ondarrua (2012).

### **Languages:**

French, English, Spanish.