

CONTACT INFORMATION

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PERSONAL INFORMATION

Date of birth: July 20th, 1970
Place of birth: Palma de Mallorca (Spain)
Citizenship: Dutch
Marital status: Married to Catalina Bordoy Marcó
Children: Maria and Lucas

EMPLOYMENT HISTORY

2008 - present: Associate Professor at Maastricht University (Netherlands)
Department of Quantitative Economics
2002 - 2008: Assistant Professor at Maastricht University (Netherlands)
Department of Quantitative Economics
2000 - 2002: Associate Professor at Universidad Carlos III de Madrid (Spain)
Department of Economics
1998 - 2000: Assistant Professor at Universidad Carlos III de Madrid (Spain)
Department of Economics
1997 - 1998: Post doc / visiting professor at Universitat Autònoma de
Barcelona (Spain)
Department of Economics and Economic History

EDUCATION

- 1993 - 1997:** PhD in Economics, at Maastricht University (Netherlands)
Title of dissertation: *Information Structures in Non-cooperative Games*
Supervisors: Prof. dr. Hans Peters, and dr. Mathijs Jansen
- 1988 - 1993:** Master Degree in Mathematics, at Technical University Aachen (Germany)
- 1982 - 1988:** Atheneum, at Sintermeerten College Heerlen (Netherlands)

RESEARCH INTERESTS

My main research interest is in *epistemic game theory* – a recent discipline which investigates how people *reason* before they make decisions. It focuses especially on situations of strategic interaction, in which several decision makers are involved. It has many applications to economics and other social sciences.

BOOKS

Epistemic Game Theory: Reasoning and Choice
Published at *Cambridge University Press* in June 2012.

This is a textbook on *epistemic game theory* – the first in its kind – which I have written for bachelor students, master students and PhD students at universities. It can be used as a textbook for a general course in *game theory*, or for a more specialized course in *epistemic game theory*. The book is full of examples and exercises based on situations from everyday life.

Rationality in Extensive Form Games
Published at *Kluwer Academic Publishers*, Theory and Decision Library, in 2001.

This book is a monograph on the theory of *dynamic games*. It explores various concepts that have been proposed in the literature for dynamic games, and investigates the relationships between these.

PUBLICATIONS IN REFEREED JOURNALS

- Bach, C.W. and A. Perea (2019), Incomplete information and iterated strict dominance, Accepted for publication in *Oxford Economic Papers*.
- Bach, C.W. and A. Perea (2019), Generalized Nash equilibrium without common belief in rationality, Accepted for publication in *Economics Letters*.
- Perea, A. and A. Predtetchinski (2019), An epistemic approach to stochastic games, *International Journal of Game Theory* **48**, 181 – 203.
- Asheim, G. and A. Perea (2019), Algorithms for cautious reasoning in games, *International Journal of Game Theory* **48**, 1241 – 1275.
- Perea, A. and E. Tsakas (2019), Limited focus in dynamic games, *International Journal of Game Theory* **48**, 571 – 607.
- Perea, A. (2018), Why forward induction leads to the backward induction outcome: A new proof for Battigalli's theorem, *Games and Economic Behavior* **110**, 120 – 138.
- Mounir, A., Perea, A. and E. Tsakas (2018), Common belief in approximate rationality, *Mathematical Social Sciences* **91**, 6 – 16.
- Perea, A. (2017), Forward induction reasoning and correct beliefs, *Journal of Economic Theory* **169**, 489 – 516.
- Perea, A. and S. Roy (2017), A new epistemic characterization of epsilon-proper rationalizability, *Games and Economic Behavior* **104**, 304 – 328.
- Perea, A. and W. Kets (2016), When do types induce the same belief hierarchy?, *Games*, **7**, 28; doi: 10.3390/g7040228
- Heifetz, A. and A. Perea (2015), On the outcome equivalence of backward induction and extensive-form rationalizability, *International Journal of Game Theory* **44**, 37--59.
- Miettinen, T. and A. Perea (2015), Commitment in Alternating Offers Bargaining, *Mathematical Social Sciences* **76**, 12 – 18.
- Perea, A. (2014), Plausibility orderings in dynamic games, *Economics and Philosophy* **30**, 331--364.
- Perea, A. (2014), Belief about the opponent's future rationality, *Games and Economic Behavior* **83**, 231--254.

- Perea, A. (2014), From classical to epistemic game theory, *International Game Theory Review* **16**, No. 1, 144001, 22 pages.
- Bach, C.W. and A. Perea (2014), Utility proportional beliefs, *International Journal of Game Theory* **43**, 881--902.
- Bach, C.W. and A. Perea (2013), Agreeing to disagree with lexicographic prior beliefs, *Mathematical Social Sciences* **66**, 129-133.
- Navarro, N. and A. Perea (2013), A simple bargaining procedure for the Myerson value, *B.E. Journal of Theoretical Economics* **13**, 131-150.
- Perea, A. (2011), An algorithm for proper rationalizability, *Games and Economic Behavior* **72**, 510-525.
- Flesch, J. and A. Perea (2011), Strategic disclosure of random variables, *European Journal of Operations Research* **209**, 73-82.
- Driesen, B., Perea, A. and H. Peters (2010), The Kalai-Smorodinsky bargaining solution with loss aversion, *Mathematical Social Sciences* **61**, 58-64.
- Perea, A. (2010), Backward induction versus forward induction reasoning, *Games* **1**, 168-188.
- Driesen, B., Perea, A. and H. Peters (2010), On Loss Aversion in Bimatrix Games, *Theory and Decision* **68**, 367-391.
- Perea, A. (2009), A model of minimal probabilistic belief revision, *Theory and Decision* **67**, 163-222.
- Flesch, J. and A. Perea (2009), Repeated Games with Voluntary Information Purchase, *Games and Economic Behavior* **66**, 126-145.
- Flesch, J., Karagozoglu, E. and A. Perea (2009), Optimal search for a moving target with the option to wait, *Naval Research Logistics* **56**, 526-539.
- Perea, A. (2008), Minimal belief revision leads to backward induction, *Mathematical Social Sciences* **56**, 1-26.
- Perea, A. (2007a), Proper belief revision and equilibrium in dynamic games, *Journal of Economic Theory* **136**, 572-586.
- Perea, A. (2007b), A one-person doxastic characterization of Nash strategies, *Synthese* **158**, 251-271 (*Knowledge, Rationality and Action*, 341-361).
- Müller, R., Perea, A. and S. Wolf (2007), Weak Monotonicity and Bayes-Nash Incentive Compatibility, *Games and Economic Behavior* **61**, 344-358.

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- Perea, A., Peters, H., Schulteis, T. and D. Vermeulen (2007), Revision of Conjectures about the Opponent's Utilities in Signaling Games, *Economic Theory* **30**, 373-384.
- Perea, A. (2006), Proper belief revision and rationalizability in dynamic games, *International Journal of Game Theory* **34**, 529-559.
- Perea, A., Peters, H., Schulteis, T. and D. Vermeulen (2006), Stochastic Dominance Equilibria in Two-Person Noncooperative Games, *International Journal of Game Theory* **34**, 457-473.
- Herings, J.J., Perea, A. and A. Predtetchinski (2006), The Weak Sequential Core for Two-Period Economies, *International Journal of Game Theory* **34**, 55-65
- Nicolò, A. and A. Perea (2005), Monotonicity and equal-opportunity equivalence in bargaining, *Mathematical Social Sciences* **49**, 221-243.
- Asheim, G.B. and A. Perea (2005), Sequential and quasi-perfect rationalizability in extensive games, *Games and Economic Behavior* **53**, 15-42.
- Kranich, L., Perea, A. and H. Peters (2005), Core concepts for dynamic TU-games, *International Game Theory Review* **7**, 43-61.
- Perea, A. (2002), A note on the one-deviation property in extensive form games, *Games and Economic Behavior* **40**, 322-338.
- Barberà, S. and A. Perea (2002), Supporting others and the evolution of influence, *Journal of Economic Dynamics and Control* **26**, 2051-2092.
- Perea, A., Jansen, M. and D. Vermeulen (2000), Player splitting in extensive form games, *International Journal of Game Theory* **29**, 433-450.
- Flesch, J. and A. Perea (1999), Repeated games with endogenous choice of information mechanisms, *Mathematics of Operations Research* **24**, 785-794.
- Perea, A. and H. Peters (1998), Limit consistent solutions in non-cooperative games, *Journal of Optimization Theory and Applications* **98**, No. 1, July 1998.
- Perea, A., Jansen, M. and H. Peters (1997), Characterization of consistent assessments in extensive form games, *Games and Economic Behavior* **21**, 238-252.
- Perea, A., Jansen, M. and H. Peters (1997), Consistency of assessments in infinite signaling games, *Journal of Mathematical Economics* **27**, 425-449.

BOOK CHAPTERS

Perea, A. (2015), Finite Reasoning Procedures for Dynamic Games, Book chapter in: Johan van Benthem, Sujata Ghosh and Rineke Verbrugge (eds.), *Models of Strategic Reasoning: Logics, Games and Communities*. FoLLI-LNAI State-of-the-Art Survey, LNCS 8972, Springer, Heidelberg, 2015.

Perea, A. (2007), "Epistemic foundations for backward induction: An overview", published in *Interactive Logic Proceedings of the 7th Augustus de Morgan Workshop, London*. Texts in Logic and Games 1 (Johan van Benthem, Dov Gabbay, Benedikt Löwe (eds.)), Amsterdam University Press, 159-193.

BOOK REVIEWS

Perea, A. (2017), Book review on "The Theory of Extensive Form Games" by Carlos Alós-Ferrer and Klaus Ritzberger. *Journal of Economic Literature* **55**, 217 – 218.

Perea, A. (2016), Book review on Adam Brandenburger's book "The Language of Game Theory: Putting Epistemics into the Mathematics of Games", *Games and Economic Behavior* **95**, 178--181.

TEACHING EXPERIENCE

Since 1997 I have given the following courses at universities:

- Various *game theory* courses, at bachelor, master and PhD level.
- Course in *epistemic game theory*, for master and PhD students.
- *Mathematics* for first year economics and international business students
- *Mathematics* for second year economics and international business students
- Course in *managerial decision making*, for third year students in economics and international business.
- Course in *statistics* for PhD students.
- Course in *industrial economics* for master students.

EPICENTER – A RESEARCH GROUP ON EPISTEMIC GAME THEORY

Some years ago, I have founded a *research group on epistemic game theory* at Maastricht University, together with Christian Bach and Elias Tsakas. The research group is called *EpiCenter*. We have developed a lot of activities already, such as the *EpiCenter Spring Course on Epistemic Game Theory*, the *EpiCenter Reading Group* on epistemic game theory, the *EpiCenter Mini-Course Series*, and *joint research projects*. More information about the *EpiCenter* can be found on our website

<http://www.epicenter.name/>

COURSE IN EPISTEMIC GAME THEORY

Starting in 2007, I have developed a *course in epistemic game theory* for master students, PhD students and researchers, which I have given at various universities across Europe. In 2014, our *EpiCenter* has given for the first time the

EpiCenter Spring Course in Game Theory

which is a two-week intensive course for students all over the world, that has grown out of this.

Here is an overview of the places where I have given this course until now:

- 2019: Mini-course at Summer School “Bayes at the Sea” in Ancona (Italy).
- 2019: *EpiCenter Spring Course on Epistemic Game Theory*, at Maastricht University.
- 2018: *EpiCenter Spring Course on Epistemic Game Theory*, at Maastricht University.
- 2018: Mini-course at Summer School EASSS at Maastricht University.
- 2017: *EpiCenter Spring Course on Epistemic Game Theory*, at Maastricht University.
- 2016: Mini-course at National University of Singapore.
- 2016: *EpiCenter Spring Course on Epistemic Game Theory*, at Maastricht University.
- 2015: Mini-course at University of Toulouse (France).
- 2015: *EpiCenter Spring Course on Epistemic Game Theory*, at Maastricht University.
- 2015: Mini-course at University of Innsbruck (Austria)
- 2014: *EpiCenter Spring Course on Epistemic Game Theory*, at Maastricht University.
- 2014: Mini-course at Mimar Sinan University in Istanbul (Turkey)
- 2013: Mini-course at University of Luxembourg (Luxembourg)
- 2013: Full course at Maastricht University (Netherlands)

- 2012: Mini-course at Erasmus University Rotterdam (Netherlands)
- 2011: Mini-course during *Decisions, Games and Logic Workshop* at Maastricht (Netherlands)
- 2011: Full course at Maastricht University (Netherlands)
- 2010: Full course at Maastricht University (Netherlands)
- 2009: Mini-course at University of Aarhus (Denmark)
- 2008: Mini-course at University of Lausanne (Switzerland)
- 2008: Six-week course at University of Amsterdam (Netherlands)
- 2007: Mini-course at Universidad Carlos III de Madrid (Spain)
- 2007: Mini-course at Maastricht University (Netherlands)
- 2007: Mini-course at Max-Planck Institute Jena (Germany)

SUPERVISION OF PHD STUDENTS

I have supervised (or am supervising) the following PhD students:

- **2017 - present:** *Niels Mourmans*
He works on the epistemic foundations of psychological games.
- **2014 - 2017:** *Bilge Baser*
She worked on the computational implementation of various recursive procedures in epistemic game theory.
- **2012 - 2016:** *Angie Mounir.*
Title of thesis: *Essays on Bounded Rationality in Epistemic Game Theory*
- **2013 - 2016:** *Christian Nauertz.*
Title of thesis: *Reasoning about (strategic) decisions under uncertainty*
- **2008 - 2010:** *Christian W. Bach.*
Title of thesis: *Interactive Epistemology and Reasoning: On the Foundations of Game Theory.*
- **2006 - 2010:** *Bram Driesen.*
Title of thesis: *Loss and Risk Aversion in Games and Decisions.*
- **2005 - 2009:** *Sascha Wolf.*
Title of thesis: *Monotonicity and Bayes-Nash Implementation.*
- **2003 - 2007:** *Tim Schulteis.*
Title of thesis: *On Beliefs and Incomplete Preferences in Noncooperative Games*
- **2000 - 2003:** *Noemí Navarro.*
Title of thesis: *Fair Allocation Rules for Networks.*

INVITED SPEAKER AT CONFERENCES AND WORKSHOPS

I have been *invited speaker* or *keynote speaker* at the following conferences and workshops:

- 2019: Keynote speaker at the Workshop *Bayes at the Sea*, in Ancona (Italy)
- 2013: Invited Speaker at *Workshop on Belief Change in a Social Context*, in Amsterdam (Netherlands).
- 2012: Keynote speaker at *Conference on Logic and the Foundations of Game and Decision Theory (LOFT10)* at Sevilla (Spain).
- 2012: Invited Speaker at *Workshop on Belief Change in a Social Context*, in Amsterdam (Netherlands).
- 2012: Invited speaker at *Workshop on Modeling Strategic Reasoning* in Leiden (Netherlands).
- 2011: Invited speaker at *Decisions, Games and Logic Workshop* at Maastricht (Netherlands)

PRESENTATIONS AT CONFERENCES AND WORKSHOPS

During the last few years, I have presented my research at the following conferences and workshops:

- 2019: Workshop *Bayes at the Sea* in Ancona (Italy)
- 2019: *Theoretical Aspects of Knowledge and Rationality (TARK 2019)* at Toulouse (France)
- 2018: *Conference on Logic and the Foundations of Game and Decision Theory (LOFT 2018)* in Milano (Italy).
- 2017: *Theoretical Aspects of Knowledge and Rationality (TARK 2017)* at Liverpool (United Kingdom)
- 2016: *Conference on Logic and the Foundations of Game and Decision Theory (LOFT 2016)* in Maastricht
- 2016: *GAMES 2016* at Maastricht
- 2015: *Theoretical Aspects of Knowledge and Rationality (TARK 2015)* at Pittsburgh (USA).
- 2014: *Conference on Logic and the Foundations of Game and Decision Theory (LOFT 2014)* in Bergen (Norway).
- 2013: *Econometric Society Meeting*, Gothenburg (Sweden).
- 2012: *World Congress of the Game Theory Society*, Istanbul (Turkey)

ORGANIZATION OF CONFERENCES AND WORKSHOPS

In 2016 I organized the *Twelfth Conference on Logic and the Foundations of Game and Decision Theory* (LOFT 2016) in Maastricht.

In 2019, I will organize a workshop on epistemic game theory at Maastricht University, called “Celebrating 10 years of Epicenter”.

ASSOCIATE EDITOR

Since 2013 I am an associate editor at the *International Journal of Game Theory*.

REFEREEING FOR JOURNALS

I have acted as a *referee* for the following international journals:

Econometrica, Journal of Economic Theory, American Economic Review, Economics and Philosophy, Journal of Philosophical Logic, Journal of Economic Surveys, Synthese, Games and Economic Behavior, International Journal of Game Theory, International Game Theory Review, Mathematical Social Sciences, Principia, Spanish Economic Review, Operations Research and Economic Theory.

REFEREEING FOR CONFERENCES AND WORKSHOPS

Recently, I have been member of the *program committee* for the following conferences and workshops:

- *Conference on Logic and the Foundations of Game and Decision Theory* (LOFT 2020, 2018, 2016, 2014)
- *Conference on Theoretical Aspects of Rationality and Knowledge* (TARK 2019, 2015, 2013)
- *Decisions, Games and Logic Workshop* (DGL)
- In 2021, I will be the Chair of the Program Committee for the *Conference on Theoretical Aspects of Rationality and Knowledge* (TARK 2021)

LANGUAGES

I speak the following languages:

- Dutch (mother tongue)
- Spanish (fluent)
- English (fluent)
- German (fluent)

AWARDS AND PRIZES

In 2008, I received the award for *best researcher of the year* at the School of Business and Economics at Maastricht University.