

ANTONIO PENTA
CURRICULUM VITAE
(October 2022)

Current Appointments

2018-present: ICREA Research Professor at Universitat Pompeu Fabra

2017-present: Professor of Economics, Universitat Pompeu Fabra

2017-present: Affiliated Professor, Barcelona School of Economics

Other Affiliations

2019-present: member, TSE Digital Center

2018-present: Associate Faculty at Toulouse School of Economics

Editorial Positions

Member of the Editorial Board

- *American Economic Review* (since 2020)

- *Review of Economic Studies* (since 2020)

Associate Editor

- *Journal of Economic Theory* (since 2016)

- *Theoretical Economics* (since 2019)

- *Decisions in Economics and Finance* (since 2022)

Previous Appointments

2016-2018: Associate Professor of Economics (with tenure), UW-Madison (on leave since 09/2017)

2010-2016: Assistant Professor in Economics, Univ. of Wisconsin-Madison (on parental leave in S.2016)

2008-2010: Research Assistant, University of Pennsylvania.

Spring 2008: Instructor, University of Pennsylvania.

Fall 2005-Fall 2007: Teaching Assistant, University of Pennsylvania.

Education

May 2010: Ph.D. in Economics, University of Pennsylvania

May 2008: M.A. in Economics, University of Pennsylvania.

June 2006: Summer Institute in Behavioral Economics (Trento; organized by *Russell Sage Foundation*)

May 2004: *Laurea* in Economics, Bocconi University, Milan, Italy (summa cum laude)

Awards, Grants and Fellowships

2021: *Economic Journal*, Referee Prize

2021: *Journal of the European Economic Association*, Excellence in Refereeing Award

2018-2023: ERC-Starting Grant, European Research Council, #759424 (PI, $\approx 1,480,000$ euros)

2019-2021: Spanish Commission of Science: PGC2018-098949-B-I00 (non-PI, $\approx 85,000$ euros)

2016-2018: Juli Plant Grainger Senior Fellow in Economics, UW-Madison (on leave from 09/2017)

Graduate School Research Committee Grant, UW-Madison (Five times: 2010 (\$44,843), 2011 (\$53,259), 2012 (\$20,367), 2014 (\$52,850), 2016 (\$27,940-declined))

2013: McKenzie Prize for Excellence in Research, UW-Madison

2013: Summer Grant, NET Institute

2011: William Polk Carey Prize in Economics, University of Pennsylvania

*(awarded annually for the **best doctoral dissertation** in the Penn Economics Ph.D. program.)*

2010-2013: Maude P. and Milton J. Shoemaker Fellow in Economics, UW-Madison

2009: David Cass/Beth Hayes Prize for Graduate Research Accomplishment in Economics, UPenn *(awarded biennially for the **best research contribution in the preceding two years** in the Penn Econ. Ph.D. program.)*

2008: Fondazione L. Einaudi "Mario Pannunzio" prize, offered by Accademia dei Lincei

2004-2010: University of Pennsylvania Fellowship for Doctoral Studies

2004: Gold Medal for Best Graduates, Bocconi University

Teaching Awards

- 2014: Best Teacher Award (in the Ph.D. Program), Dept. of Economics, UW-Madison.
- 2011: Honored Instructors Award, UW-Madison.
- 2010: Honored Instructors Award, UW-Madison.
- 2008: Joel Popkin Graduate Student Teaching Prize in Economics, UPenn.
- 2007: Kudos Penn Teaching Assistant Prize, UPenn

Areas of Research: Game Theory; Mechanism Design; Auctions; Bounded Rationality; Decision Theory

Working Papers

- “Backward Induction Reasoning beyond Backward Induction (with E. Catonini)
- “Safe Implementation” (with M. J. Gavan)
- “Coordination and Sophistication” (with L. Alaoui and K. A. Janezic)

Publications

Articles in Journals (Economics)

- “A Network Solution to Robust Implementation: the case of Identical but Unknown Distributions” (with M. Ollár), accepted, *Review of Economic Studies*
- “Bid Coordination in Sponsored Search Auctions: Detection Methodology and Empirical Analysis” (with F. Decarolis, M. Goldmanis, and K. Shakhgildyan), *Journal of Ind. Econ*, forthcoming
- “Cost-Benefit Analysis in Reasoning” (with Larbi Alaoui), *Journal of Political Economy*, Vol. 130(4), April 2022.
- “Efficient Implementation via Transfers: Uniqueness and Sensitivity in Symmetric Environments” (with M. Ollár), *AEA papers and proceedings*, vol.112: 438-443, 2022.
- “Rationalizability, Observability and Common Knowledge” (with P. Zuazo-Garin), *Review of Economic Studies*, Vol. 89, Issue 2, March 2022: 948–975.
- “Marketing Agencies and Collusive Bidding in Online Ad Auctions” (with Francesco Decarolis and Maris Goldmanis) *Management Science*, Vol.66, No 10, 4433-4454, November 2020.
- “Reasoning about Others’ Reasoning” (with Larbi Alaoui and Katharina A. Janezic), *Journal of Economic Theory*, Vol.189, 105091, August 2020.
- “Full Implementation and Belief Restrictions” (with Mariann Ollár), *American Economic Review*, Vol 107, Issue 8 (2017): 2243-77.
- “Endogenous Depth of Reasoning” (with Larbi Alaoui), *Review of Economic Studies*, Vol 83, Issue 4 (2016): 1297-1333.
- “Robust Dynamic Implementation”, *Journal of Economic Theory*, Vol. 160 (December 2015), 280–316.
- “On the Structure of Rationalizability for Arbitrary Spaces of Uncertainty,” *Theoretical Economics*, Volume 8, Issue 2 (May 2013), 405-430.
- “Higher Order Uncertainty and Information: Static and Dynamic Games,” *Econometrica*, Vol. 80, No. 2 (March, 2012), 631-660.
- “Multilateral Bargaining and Walrasian Equilibrium,” *Journal of Mathematical Economics*, Vol. 47 (4-5), August-October 2011, pp. 417-424.
- “Interactive Epistemology and Solution Concepts for Games with Asymmetric Information,” (joint with: Pierpaolo Battigalli, Alfredo Di Tillio, Edoardo Grillo) *The B.E. Journal of Theoretical Economics (Advances)*: Vol. 11 : Iss. 1, Article 6.

Articles in Journals (Computer Science -- peer reviewed)

- “A Price-Per-Attention Auction Scheme using Cursor Information”, (joint with I. Arapakis, H. Joho and L. Leito), *ACM-Transactions On Information Systems*, January 2020, article 13.

Articles and Chapters in Edited Volumes

- “Chapter X: Unraveling in Guessing Games: An Experimental Study (by Rosemarie Nagel)” (this is a review of Nagel’s (AER, 1995) paper, joint with John Kagel) in *The Art of Experimental Economics. 20 Top Papers Reviewed*, ed. by G. Charness and M. Pingle, Routledge, NY, (2021).
- “Recent Developments in Online Ad Auctions”, (with F. Decarolis and M. Goldmanis), in *Economic*

Analysis of the Digital Revolution ed. J. Ganuza and G. Llobet -- Funcas, Madrid (2018)

- “Robustness of the Uniqueness of Walrasian Equilibrium with Log-Linear Utilities,” (joint with: D. Cass, A. Borah, K. Kim, M. Kryshko and J. Pogach) in *The Collected Scientific Work of David Cass - Part C*, ed. S. Spears, Emerald Group Publishing Limited (2011)
- “Voting,” (joint with: J. Pogach, A. Sandroni, D. Selman, M. Tincani) for *the Encyclopedia of Complexity and Systems Science* Ed.: Robert A. Meyers - Springer (2009)

Work-in-progress

- “Generalized Incentive Compatible Transfers” (with M. Ollár)
- “Measuring Complementarities in Vertical Markets: Evidence from the Digital Advertising Industry” (with A. Chiantello, F. Decarolis and M. Goldmanis)
- “Attitudes Towards Failure and Success” (with L. Alaoui)
- “Fear of Leaks and Payoff Uncertainty” (with P. Zuazo-Garin)

Invited Seminars (including scheduled):

2022-2023: Princeton, Warwick, Venice (Ca’ Foscari, dept. seminar), Singapore Management University, Liverpool.

2021-2022: Columbia, Cornell, Alicante, IAE-UAB, Oxford (dept. seminar), ACM (Dutch competition authority), Kyoto Univ. - Osaka Univ. - National Taiwan Univ.- Hong-Kong Baptist Univ. - Academia Sinica (online joint theory seminar), Glasgow (online), Collegio Carlo Alberto, Toronto (online), Univ. Carlos III, Brown (online).

2020-2021: Yale (online), Bocconi (EGT Reading Group, online), Caltech (online), LSE (online), Oxford (Nuffield LGN seminar, online), Edinburgh (online), CUHK-HKU-HKUST (Hong-Kong joint theory seminar, online), Nottingham (CeDEx, online) -- postponed for COVID-19: NYU-Abu Dhabi, ESADE, IAE-UAB.

2019-2020: Univ. of Zurich, Higher School of Economics (Moscow) -- postponed for COVID-19: Oxford, Princeton, Edinburgh.

2018-2019: Bar-Ilan Univ., Tel-Aviv Univ., Hebrew Univ. of Jerusalem, Bonn, European University Institute (Florence), Univ. of Bologna, UPV/EHU (Bilbao)

2017-2018: CERGE-EI, Paris School of Economics (Roy Econ-Theory seminar), Groningen, Toulouse School of Economics, Universitat Pompeu Fabra (internal micro)

2016-2017: Ohio State, Univ. College London, Bocconi, Queen Mary Univ., Georgetown, Cambridge, London Business School, UC-San Diego.

2015-2016: Cambridge, Minnesota.

2014-2015: NYU, Oxford (Nuffield)

2013-2014: Harvard-MIT, Boston Univ., Princeton, Stanford, Columbia, University of Toronto, University of Minnesota, University of Illinois, UW-Madison, Universitat Pompeu Fabra.

2012-2013: UW-Madison, Carnegie-Mellon Univ., NYU (CESS), UCLA, Northwestern.

2011-2012: UW-Milwaukee, University of Michigan, Arizona State, Duke, University of Toronto.

2010-2011: Univ. of Iowa, Univ. of Montreal, Georgetown Univ., Toulouse School of Economics, Collegio Carlo Alberto, University of Bonn.

2009-2010: University of Pennsylvania, Purdue, Maastricht, Penn State, UC-Berkeley, UW-Madison, Rochester, Collegio Carlo Alberto, Bocconi.

2007-2009: Bocconi, Univ. of Pennsylvania.

Conferences (Including Scheduled):

Co-organizer and Committee Member:

2022 BSE Summer Forum, *Coordination and Social Interactions*

2022 BSE Summer Forum, *Preferences and Bounded Rationality*

2020 Barcelona GSE Summer Forum, *Bounded Rationality, Cognition and Strategic Uncertainty* -- (cancelled for COVID-19 crisis)

2019 Barcelona GSE Summer Forum, *Bounded Rationality, Cognition and Strategic Uncertainty*

2018 Barcelona GSE Summer Forum, *Bounded Rationality, Cognition and Strategic Uncertainty*
2017 Barcelona GSE Summer Forum, workshop: *Limited Reasoning, Cognition and Coordination*
2016 Barcelona GSE Summer Forum, workshop: *Limited Reasoning, Cognition and Coordination*
2015 Barcelona GSE Summer Forum, workshop: *Limited Reasoning and Cognition*

Member of the Program Committee:

2023 Congress of the European Economic Association, Barcelona (Spain); Lead Committee Coordinator of the Economic Theory area.
2022 Congress of the European Economic Association, Milan (Italy); Lead Committee Coordinator of the Economic Theory area.
2021 EWMES Econometric Society European Winter Meeting, Barcelona (Spain)
2021 ESEM: Econometric Society European Meeting, Copenhagen (Denmark).
2020 SAE: 45th Simposio of the Spanish Economic Association, Univ. of Salamanca (Spain)
2020 LOFT XIV: 14th Conference on Logic and the Foundations of Game and Decision Theory, Univ. of Groningen (Netherlands), 2020 -- postponed to 2021 due to COVID-19 crisis
2019 ESEM: Econometric Society European Meeting, Univ. of Maastricht (Netherlands).
2018 ESEM: Econometric Society European Meeting, Univ. of Cologne (Germany).
2018 LOFT XIII: 13th Conference on Logic and the Foundations of Game and Decision Theory, Bocconi Univ. (Milan, Italy), 2018
2018 NASMES: North American Summer Meetings of the Econometric Society, UC-Davis;
2017 XV-SAET Conference on Mathematical Economics, Faro (Portugal) (session organizer)
2016 NASMES: North American Summer Meetings of the Econometric Society, UPenn (USA).
2016 LOFT XII: 12th Conference on Logic and the Foundations of Game and Decision Theory, Maastricht (Netherlands).
2014 NSF/NBER *Conference on General Equilibrium and Mathematical Economics*, UW-Madison
2014 LOFT XI: 11th Conference on Logic and the Foundations of Game and Decision Theory, Bergen (Norway).
2013 TARK XIV: Theoretical Aspects of Rationality and Knowledge, Chennai (India).

Invited Conferences:

2021: Economic Theory Workshop, Univ. of Bonn
2021: *Semi-Plenary Speaker*, GAMES 2020.1: 6th World Congress of the Game Theory Society (Budapest, Hungary) -- postponed from 2020 due to COVID-19 crisis
2021: *discussant*, CalTech, online economic theory seminar
2019: *Keynote Speaker*, Behavioral Research in Economics Workshop (IIM, Ahmedabad, India)
2019: *Keynote Speaker*, ICEF Microeconomics Workshop (Moscow, Russia)
2019: Workshop on "New Directions in Mechanism Design", (Stony Brook, NY, USA)
2019: XIX-SAET Conference on Mathematical Economics, Ischia (ITA)
2019: Warwick Economic Theory Workshop, Univ. of Warwick (UK)
2018: UBC-HKU Summer Workshop in Economic Theory, Vancouver (CAN)
2018: Warwick Economic Theory Workshop, Univ. of Warwick (UK)
2018: Sixth Southampton-Bristol Workshop in Economic Theory, Southampton (UK)
2017: Workshop on *Reasoning About Strategic Interaction and Emotions*, Bocconi, Milan (ITA)
2017: XV-Barcelona GSE Trobada, Universitat Autònoma de Barcelona. (ESP)
2017: SISL Summer Conference on *Misspecification, Robustness, Causality and the Design of Experiments* (Caltech, USA)
2017: HKU-UBC Summer Workshop in Economic Theory, Hong-Kong University (HK)
2016: *invited participant*, 25th European Summer Symposium in Economic Theory, Gerzensee (SUI)
2015: XIII-SAET Conference on Mathematical Economics, Cambridge (UK).
2014: Workshop on *Cognitive Skills and Strategic Reasoning*, at WZB in Berlin, (GER).
2014: XII-SAET Conference on Mathematical Economics, Tokyo (JAP).
2013: XI-SAET Conference on Mathematical Economics, Paris (FR).
2012: *discussant*, ES North American Winter Meetings

Contributed Presentations:

2022: ESA-2022: Economic Science Association Conference, Bologna (Italy)
2018: LOFT XIII: 13th Conference on Logic and the Foundations of Game and Decision Theory, Bocconi Univ. (Milan, Italy)
2015: Econometric Society World Congress-ESWC2015, Montreal (Canada)
2013: Canadian Economic Theory Conference 2013, Concordia University, Montreal (Canada)
2012: ES Winter North American Meetings (Chicago);
2012: LOFT X: 10th Conf.on Logic and the Foundations of Game and Decision Theory (Sevilla);
2012: GAMES 2012 Fourth Congress of the Game Theory Society (Istanbul);
2011: X-SAET Conference on Mathematical Economics, Faro (Portugal);
2010: NSF/NBER/CEME *Conference on General Equilibrium and Mathematical Economics*, at NYU;
2010: Workshop on *Recent Developments in Mechanism Design*, Princeton (NJ, USA);
2009: IX-SAET Conference on Mathematical Economics, Ischia (Italy);
2009: Workshop on *Information and Dynamic Mechanism Design*, Bonn (Germany);
2008: ESEM-EEA 2008, Milan (Italy);
2008: North-American Summer Meeting of the Econometric Society, Pittsburgh (PA, USA);
2008: 4th CARESS-COWLES Conference on General Equilibrium and its Applications;
2007: VIII-SAET Conference on Mathematical Economics, Kos (Greece).

Academic Visits

Toulouse School of Economics, regular visits, 2018-present
University of Primorska, August 2018
Cambridge Univ., INET, November 2015
Oxford Univ., Nuffield College, May 2015
University of Pennsylvania, April 2015
Universitat Pompeu Fabra, June-July 2014, January and June 2015
Northwestern Univ., Center for Economic Theory, May 2013
Collegio Carlo Alberto, June 2011

Editorial and Refereeing Activities:

- Member of the Editorial Board, *American Economic Review*, 2020-present
- Member of the Editorial Board, *Review of Economic Studies*, 2020-present
- Associate Editor, *Theoretical Economics*, 2019-present
- Associate Editor, *Journal of Economic Theory* 2016-present
- Associate Editor, *Decisions in Economics and Finance*, 2022-present
- Referee for: *American Economic Review*, *Econometrica*, *Review of Economic Studies*, *Quarterly Journal of Economics*, *Theoretical Economics*, *Journal of Economic Theory*, *Economic Journal*, *Games and Economic Behavior*, *Journal of Economic Literature*, *Quantitative Economics*, *American Economic Journal: Microeconomics*, *European Economic Review*, *Economics and Philosophy*, *International Economic Review*, *Journal of the European Economic Association*, *Journal of Mathematical Economics*, *International Journal of Game Theory*, *Journal of Economic Behaviour and Organization*, *Berkeley Electronic Journal of Economic Theory*, *Theory and Decision*, *Economica*, *Mathematics of Operations Research*, *Journal of Strategy and Management*, *Review of Industrial Organization*, *Review of Managerial Science*.
- Scientific Reviewer: *European Research Council*; *ANVUR: Italian National Agency for the Evaluation of Universities and Research Institutions*; *Netherlands Organisation for Scientific Research*; *NSF: National Science Foundation*; *BSF: US-Israel Binational Science Foundation*; *CIREP: UPF's Institutional Commission for Ethical Review of Projects*.

Teaching experience:

(at UPF and Barcelona School of Economics)

- Advanced Microeconomics II (Core course for M.Res. and Ph.D. students -- General Equilibrium and Game Theory; 2018-present)

- Topics in Economic Theory III (for Ph.D. students – Incomplete Information and Mechanism Design)
- Game Theory and Mechanism Design (for undergrads; 2018-present)
- Competition in Digital Markets (2021: BSE Executive Course, co-taught with M.Motta, C.Fumagalli, G.Kultai, and M.Peitz).
- Competition in Digital Markets (2022: BSE Professional Course, co-taught with M.Motta, C.Fumagalli, G.Kultai, and M.Peitz).
- Digital Economics (2020-2022: BSE Master course, co-taught with J.Ganuza and R.Ferrer)
- Industrial Organization (2021-2022: BSE Master course, co-taught with S.Shelegia and R.Ferrer)
- Summer Course on ‘Digital Economics’ (2019: co-taught with J.Ganuza and R.Ferrer)
- Economic Methods for Data Science (2019: Core course for DataScience Master students -- co-taught with N.Rao and C.Calsamiglia)

(at UW-Madison)

- Econ-521 Game Theory and Economic Applications (for undergrads; two times)
- Econ-805 Advanced Economic Theory I (for Ph.D. students; four times)
- Econ-806 Advanced Economic Theory II (for Ph.D. students; three times)
- Econ-111 Principles of Economics - Accelerated Treatment (undergraduate honors; five times)

(at UPenn)

As Main Instructor: Intermediate Macroeconomics (Spring 2008).

As Teaching Assistant/Recitation Instructor:

- Fall 2007: T.A and R.I. for Introductory Macroeconomics (main instr.: Dr. Gwen Eudey)
- Spring 2007: T.A for Economics of Labor (main instr.: Prof. Kenneth Burdett)
- Fall 2006: T.A and R.I. for Introductory Microeconomics (main instr.: Dr. Rebecca Stein)
- Fall 2005 & Spring 2006: T.A. for International Economics (main instr.: Prof. Stephen Yeaple)

Advised Students (role; year of completion):

(at UPF)

Ph.D. Thesis: Katharina A. Janezic (letter writer; 2021); Malachy Gavan (advisor, ongoing); Andrea Salvanti (advisor, ongoing)

M.Res. Thesis: Andrea Salvanti (reader, 2022), Pia Ennuschaat (reader, 2021); Jeremy Rubinoff (advisor, 2021); Orestis Vravosinos (advisor, 2019); Malachy Gavan (reader, 2019)

M.S. Thesis: Orestis Vravosinos, Malachy Gavan, Kelly Guo, Vladimir Morozov (advisor, 2018)

(at UW-Madison)

Ph.D. Thesis: Mariann Ollar (advisor; 2014); Man Wah Cheung (member of committee; 2015); Jianrong Tian (member of committee; 2016); Jorge Vasquez (member of committee, n.r.; 2016); George Loginov (member of committee; 2018); Shane Auerbach (advisor; 2018); Alexander Clarke (advisor, 2018); Pedro Guinsburg (co-advisor, 2020).

External Committee Member (institution; year)

Ph.D. Thesis: Bernardo García-Pola (UPV/EHU, 2018)

Academic and Departmental Service:

(at UPF)

Ph.D. Program Committee, 2018-

Co-organizer, Microeconomics Seminar Series, 2018-

(at UW-Madison)

Graduate Committee, 2016-2017

Admission and Aid Committee, 2011-2017

UW Academic Senate (Senator: 2010-2016; alternate: 2016-2017)

Organizer, Micro Theory Seminar Series, 2013-2014

Languages: Italian (native), English (fluent), Spanish (good)