

Feb. 2018

Olivier Gossner

Born 04/04/1969

Qualifications

- 2004 Habilitation à diriger les recherches
- 1996 Ph.D. Thesis, *Université Paris 6, summa cum laude*
- 1995 Agrégation de mathématiques
- 1989–1993 *Ecole Normale Supérieure, Mathematics, Paris*

Positions

- 2014– CREST, CNRS, Economics Department, Ecole polytechnique
- 2008– London School of Economics, Department of Mathematics
- 2005–2014 PjSE, CNRS, Paris School of Economics
- 1998–2005 THEMA, CNRS, Université Paris Nanterre
- 1996–1998 CORE, Université Catholique de Louvain

Visiting positions

- 2005–2008 MEDS, Kellogg School of Management, Northwestern University
- 2004–2005 Institute of Advanced Studies, Jerusalem

Publications

Articles in peer reviewed journals

- “A normalized value for information purchases”, with Antonio Cabrales and Roberto Serrano, *Journal of Economic Theory*, 170:266-288, 2017
- “The complexity of interacting automata”, with Penélope Hernández and Ron Peretz *International Journal of Game Theory*, 45:461-496, 2016
- “Finite-sample exact tests for linear regressions with bounded dependent variables”, with Karl Schlag, *Journal of Econometrics*, 177: 75-94, 2013
- “Entropy and the value of information to investors”, with Antonio Cabrales and Roberto Serrano, *American Economic Review* 103: 360-377, 2013
- “Performing best when it matters most: evidence from professional tennis”, with Julio González-Días and Brian Rogers, *Journal of Economic Behavior and Organizations* 84: 767-781, 2012
- “Reasoning-based introspection”, with Elias Tsakas, *Theory and Decision* 73: 513-523, 2012
- “Impermanent types and permanent reputations”, with Mehmet Ekmekci and Andrea Wilson, *Journal of Economic Theory* 147: 162–178, 2012

- “Simple bounds on the value of a reputation”, *Econometrica* 79: 1627–1641, 2011
- “Ability and Knowledge”, *Games and Economic Behavior* 69: 95–106, 2010
- “When is the individually rational payoff in a repeated game equal to the minmax payoff?”, with Johannes Hörner, *Journal of Economic Theory* 145: 63-84, 2010
- “Information independence and common knowledge”, with Ehud Kalai and Robert Weber, *Econometrica* 77: 1317–1328, 2009
- “Informationally optimal correlation”, with Rida Laraki and Tristan Tomala, *Mathematical Programming B* 116: 147-172, 2009
- “Entropy bounds on Bayesian learning”, with Tristan Tomala, *Journal of Mathematical Economics* 44: 24-32, 2008
- “Secret correlation in repeated games with imperfect monitoring”, with Tristan Tomala, *Mathematics of Operations Research* 32: 413-424, 2007
- “Optimal use of communication resources”, with Penélope Hernández and Abraham Neyman, *Econometrica* 74: 1603-1636, 2006
- “Empirical distributions of beliefs under imperfect observation”, with Tristan Tomala, *Mathematics of Operations Research* 31: 13-30, 2006
- “Informational cascades elicit private information”, with Nicolas Melissas, *International Economic Review* 47: 297-325, 2006
- “Coordination through De Bruijn sequences”, with Penélope Hernández, *Operations Research Letters* 34: 17-21, 2006
- “On the consequences of behavioural adaptations in the cost-benefits analysis of road safety measures”, with Pierre Picard, *Journal of Risk and Insurance* 72: 577-599, 2005
- “Dynamiques de Communication”, with Penélope Hernández and Abraham Neyman *Revue Économique* 55: 509-516, 2004
- “Positive value of information in games”, with Bruno Bassan, Marco Scarsini et Shmuel Zamir, *International Journal of Game Theory* 32: 17-31, 2003
- “On the complexity of coordination”, with Penélope Hernández, *Mathematics of Operations Research* 28: 127-141, 2003
- “Strategic learning in games with symmetric information”, with Nicolas Vieille, *Games and Economic Behavior* 42: 25-47, 2003
- “How to play with a biased coin?”, with Nicolas Vieille, *Games and Economic Behavior* 41: 206-226, 2002
- “Repeated communication through the ‘and’ mechanism”, with Nicolas Vieille, *International Journal of Game Theory* 30: 41-61, 2001
- “Comparison of information structures”, *Games and Economic Behavior* 30: 44-63, 2000
- “Secure protocols – or how communication generates correlation”, *Journal of Economic Theory* 83: 69-89, 1998
- “Protocoles de communication robustes”, *Revue Économique* 48: 685-695, 1997
- “Overlapping generations games with mixed strategies”, *Mathematics of Operations Research* 21: 477-486, 1996
- “The folk theorem for finitely repeated games with mixed strategies”, *International Journal of Game Theory* 24 : 95-107, 1995

Chapters in collective works

“Repeated Games”, with Tristan Tomala in Meyers, Robert (Ed.) *Encyclopedia of Complexity and Systems Science*, Vol LXXX, Springer New York, 2009.

Work in progress

“On the cost of misperception: General results and related behavioural biases”, with Jakub Steiner, in revision for *Journal of Economic Theory*

“Preferences under ignorance”, with Christoph Kuzmics, conditionally accepted in *International Economic Review*

“Dynamic bank runs”, with Kyna Fong, Johannes Hörner, and Yuliy Sannikov

“Strategic type spaces”, with Rafael Veiel

“An instrumental approach to the value of information”, with Michel de Lara

Main Teaching

- 2011– Game Theory, undergraduate course, London School of Economics
- 2011– Dynamical Systems and Chaos Theory, undergraduate course, London School of Economics
- 2014– Advanced Game Theory, ENSAE
- 2014– Game Theory, Ecole polytechnique
- 2008-2010 Probability for Finance, undergraduate course, London School of Economics
- 2008-2012 Game Theory, undergraduate course, London School of Economics
- 2007–2014 Topics in Game Theory, Master Analyse et Politique Economiques, graduate course
- 2005–2008 Mathematical Methods for Management Decisions, M.B.A. Kellogg School of Management
- 2005–2008 Statistical Methods for Management Decisions, M.B.A. Kellogg School of Management
- 2004–2006 Decision Analysis and Game Theory, DEA Analyse et Politique Economiques, graduate course
- 2002–2005 Decision Theory and Game Theory, Ecole Nationale des Ponts et Chaussées
- 2002–2005 Information Economics, DEA Optimisation jeux et modélisation en économie, graduate course,
- 2001 Microeconomic Theory, European Doctoral Program in Quantitative Economics, CORE, graduate course
- 2000 Strategic use of Information, DEA Mathématiques appliquées aux sciences économiques, graduate course
- 2000–2001 Game theory and strategic thinking, Ecole des Mines de Nancy
- 1999 Stochastic processes and applications, University Paris Dauphine

Honors and services to the profession

Editorship

- 2013– Advisory Editor, Games and Economic Behavior
- 2008– Associate Editor, Mathematics of Operations Research
- 2011–2015 Associate Editor, Operations Research Letters
- 2006–2014 Associate Editor, Theory and Decision

Governance

- 2015– President of the Economics Department, Ecole Polytechnique
- 2012–2014 Member of the PSE board of Directors
- 2011–2013 Member of the PSE steering committee
- 2010–2014 Member of the PSE chair assembly
- 2008–2011 Member of the CNRS Commission, section 37, appointed by the Minister of Research
- 2008–2012 Member of the Council of the Game Theory Society

Grants

- 2012–2014 LabEx OSE, area director
- 2010–2013 STICERD grant “Exact nonparametric tests for linear regressions - theory and applications”, PI
- 2005–2008 NSF Grant SES-0550993 “Summer Program on Game Theory and Economics”
- 2004–2008 ACI Jeunes Chercheurs, PI
- 1997–1999 FNSFS individual Fellowship
- 1995–1997 Marie Curie individual Fellowship