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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*

Appointments

- 2008– Professor of Mathematics, part-time, London School of Economics
2014– Professeur, *École Polytechnique*
1998– CNRS, currently Senior Researcher (DR1 rank)
2008–2014 Professeur, *Paris School of Economics*
1996–1998 Fellow, *CORE*, Université Catholique de Louvain
1995–1996 Human Capital Mobility fellow, *Universitat Pompeu Fabra*

Visiting positions

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

Publications

Articles in peer reviewed journals

- “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 Economique* 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 Economique* 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.

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, École 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 Economie, 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 Information Economics, DEA Optimisation Jeux et Modélisation en Economie, graduate course
- 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 Valérie Pécresse
- 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