

Paolo Pin

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Curriculum Vitae

From December 2008: *Ricercatore* at the Dipartimento di Economia Politica e Statistica of the Università degli Studi di Siena.

September 2008-August 2009: *Max Weber Fellowship* in Economics at the *European University Institute* (EUI), Florence, Italy.

February 2007-August 2008: Post-Doc position at the *Abdus Salam International Centre for Theoretical Physics* (ICTP), Trieste, Italy.

2007: PhD in Economics, University of Venice. PhD thesis, published as a book in 2009, is on game theoretical formation models for social networks, supervisor is Sergio Currarini.

2003: Diploma Master in “Modelling and Simulation of Complex Realities”, ICTP, Trieste, Italy.

2002: 4 years degree in Mathematics, University of Siena.

Visiting periods abroad

2004–2005: *visiting student* at the *Centre for Computational Finance and Economic Agents* (CCFEA), University of Essex.

June 2004: *assistant researcher* at the CCFEA, University of Essex.

Research activity

Research interests: mathematical modeling for economics and other social sciences.

Publications in Journals

- 1) **Stochastic Stability in the Best Shot Network Game**, with Leonardo Boncinelli, accepted for publication on *Games and Economic Behavior*;
- 2) **Excess Covariance and Dynamic Instability in a Multi-Asset Model**, with Mikhail Anufriev, Giulio Bottazzi and Matteo Marsili, accepted for publication on *Journal of Economic Dynamics and Control*;
- 3) **Homophily and Long-Run Integration in Social Networks**, with Yann Bramoullé, Sergio Currarini, Matthew Jackson and Brian Rogers, accepted for publication on *Journal of Economic Theory*;
- 4) **Collaboration in Social Networks**, with Luca Dall'Asta and Matteo Marsili, accepted for publication on the *Proceedings of the National Academy of Sciences*;
- 5) **Optimal equilibria of the best shot game** (2011) with Luca Dall'Asta and Abolfazl Ramezanzpour, *Journal of Public Economic Theory* 13 (6), 885-901;
- 6) **Eight Degrees of Separation** (2011), *Research in Economics* 65 (3), 259-270;
- 7) **Identifying the roles of race-based choice and chance in high school friendship network formation** (2010), with Sergio Currarini and Matthew O. Jackson, *Proceedings of the National Academy of Sciences* 107 (11), 4857-4861;
- 8) **Observed choices and underlying opportunities** (2010), with Silvio Franz and Matteo Marsili, *Science and Culture* 76 (9-10), 471-476;
- 9) **An Economic Model of Friendship: Homophily, Minorities and Segregation** (2009), with Sergio Currarini and Matthew O. Jackson, *Econometrica* 77 (4), 1003-1045;
- 10) **Assessing the relevance of node features for network structure** (2009), with Ginestra Bianconi and Matteo Marsili, *Proceedings of the National Academy of Sciences* 106 (28), 11433-11438;
- 11) **Effects of Tobin Taxes in Minority Game markets** (2009), with Ginestra Bianconi, Tobias Galla and Matteo Marsili, *Journal of Economic Behavior and Organization* 70, 231-240;
- 12) **Statistical Mechanics of maximal independent sets** (2009), with Luca Dall'Asta and Abolfazl Ramezanzpour, *Physical Review E* 80 (6), 061136;
- 13) **Optimization in task-completion networks** (2008), with Luca Dall'Asta and Matteo Marsili, *Journal of Statistical Mechanics*, P02003;
- 14) **Marginal contribution, reciprocity and equity in segregated groups: Bounded rationality and self-organization in social networks** (2007), with Simone Giansante, Alan Kirman and Sheri Markose, *Journal of Economic Dynamics and Control*, 31 (6), 2085-2107;
- 15) **Evolution of Risk Preferences** (2006), *Mathematical Methods in Economics and Finance*, 1 (1), 65-76;

Chapters in books

- 16) **Simulations on Correlated Behavior and Social Learning** (2010), with Andrea Blasco, in "Progress in Artificial Economics", editors M. LiCalzi, L. Milone and P. Pellizzari, Springer, 89-100;
- 17) **The grass is always greener on the other side of the fence - The effect of misperceived signalling in a network formation process** (2007), with Simone Giansante, Alan Kirman and Sheri Markose, in "Artificial Market Modeling", ed. Andrea Consiglio, Springer, 221-233;
- 18) **A Model of Myerson-Nash equilibria in networks** (2006), in "Artificial Economics", editors P. Mathieu, B. Beaufils and O. Brandouy, Springer, 175-188;

Working papers

- 19) **Paying Positive to Go Negative: Advertisers' Competition and Media Reports** (2011) with Andrea Blasco and Francesco Sobbrío, SSRN working papers;
- 20) **Psychological Pressure in Competitive Environments: Evidence from A Randomized Natural Experiment: Comment** (2011), with Francesco Feri and Alessandro Innocenti, Working Papers in Economics and Statistics, University of Innsbruck (n. 2011-03);
- 21) **Price Dispersion, Search Externalities, and the Digital Divide** (2009), with Manfred Nermuth, Giacomo Pasini and Simon Weidenholzer, Working Papers of the Department of Economics of the University of Vienna (n. 0916);
- 22) **A network model of price dispersion** (2008), with Giacomo Pasini and Simon Weidenholzer, Working Papers of the FEEM Foundation (n.28.2008);
- 23) **Selection matters** (2006), Working Papers of the Department of Applied Mathematics, University of Venice (n.138.2006);

Books

- 24) in 2009 Editor VDM Verlag published a book from my 2007 PhD Thesis: "**Four multi-agents economic models - From evolutionary competition to social interaction**" (ISBN 3639186540).

Prizes: in December 2009 the paper "**Eight Degrees of Separation**" (4) won the *Vinci prize*, of the Parthenope University of Naples, for papers extracted from the PhD thesis.

Presentations at seminars and workshops

- 2011:**
 - seminar, Economic Department, University of Pisa, December;
 - III International Workshop on Social Network Analysis, Naples, June;
 - Max Weber Programme Lustrum Conference, Florence, June;
- 2010:**
 - *Artificial Economics 2010*, Treviso, September;
 - *15th CTN Workshop*, Marseille, June;
 - seminar, IMT, Lucca, June;
 - seminar, Department of Economics, EUI, Florence, April;
 - seminar, Center for Complex Systems, University of Siena, April;
- 2009:**
 - Lecture "Salvatore Vinci", Napoli, December (invited);
 - *Workshop on Evolution and market behavior in economics and finance*, Pisa, October (invited);
 - *III GRASS Workshop on collective choices*, Padova, September;
 - *24th Annual Congress of the European Economic Association*, Barcelona, August;
 - *Public Economic Theory Conference*, Galway, June;
 - *Max Weber Programme Conference*, EUI, Florence, June;
 - seminar, Dipartimento di Economia Politica, University of Siena, May;
 - seminar, Faculty of Economics, Humboldt University in Berlin, January;
 - *14th CTN Workshop*, Maastricht, January;
- 2008:**
 - seminar, Department of Economics, University of Florence, December;
 - seminar, Department of Economics, University of Vienna, December;
 - seminar, Department of Economics, EUI, Florence, November;
 - seminar, Department of Economics, University of Venice, September;
 - *International Workshop on Sociophysics*, ISI Foundation, Torino, May;
 - seminar, School of Economics, University of Amsterdam, April;
 - *Complexity in Markets Conference*, University of Warwick, April;
 - seminar, Economic Department, University of Padua, February;
 - seminar, Scuola Superiore Sant'Anna, Pisa, January;
 - *13th CTN Workshop*, Venice, January;

- 2007:**
- seminar, Economic Department, University of Pisa, November;
 - *Econophysics colloquium and beyond*, Ancona, September;
 - *GRASS Workshop on collective choices*, Siena, September;
 - *Artificial Economics 2007*, Palermo, September;
 - *22nd Annual Congress of the European Economic Association*, Budapest, August;
 - seminar, Economic Department, University of Bologna, June;
 - *Workshop on Statistical Physics and Financial Markets*, ICTP, Trieste, April;
- 2006:**
- seminar, Center for Complex Systems, University of Siena, July;
 - *12th Conference on the Foundations of Utility and Risk Theory*, LUISS University, Rome, June;
 - *1st Conference on Economic Sciences with Heterogeneous Interacting Agents*, Bologna, June;
 - *Spring Meeting of Young Economists*, Seville, May;
 - *QED Workshop*, Vienna, May;
 - *11th CTN Workshop*, University of Warwick, January;
- 2005:**
- *Conference on CAE and Computational Technologies*, Lecce, Italy, October;
 - *Symposium in Agent-based Computational Methods*, Lille, September;
 - *10th Workshop on Economic Heterogeneous Interacting Agents*, University of Essex, June;
 - seminar, Department of Applied Mathematics, University of Venice, April;
- 2004:**
- seminar, CCFEA, University of Essex, October.

Editorial activities: referee for the journals (last time in parenthesis) *Annals of Operations Research* (2012), *Journal of Economic Behavior and Organization* (2012), *Quarterly Journal of Economics* (2012), *Rationality and Society* (2012), *Review of Economic Studies* (2012), *B.E. Journal of Theoretical Economics* (2011), *Econometrica* (2011), *Games and Economic Behavior* (2011), *International Journal of Game Theory* (2011), *Journal of Economic Theory* (2011), *Journal of the European Economic Association* (2011), *Journal of Population Economics* (2011), *Journal of Statistical Mechanics* (2011), *Metroeconomica* (2011), *Quantitative Economics* (2011), *Rationality and Society* (2011), *Research in Economics* (2011), *Review of Network Economics* (2011), *American Economic Review* (2010), *Journal of Evolutionary Economics* (2010), *Mathematical Social Sciences* (2010), *Molecular Psychiatry* (2009), *Open Economic Journal* (2009), *Social Choice and Welfare* (2009), *Economic Inquiry* (2008), *Economics* (2008), *Journal of Economic Dynamics and Control* (2008), *Regional Science and Urban Economics* (2008), *Computational Economics* (2007), *International Game Theory Review* (2007), *The European Physical Journal B* (2007).

Affiliations: *Centro per lo Studio dei Sistemi Complessi* of the Università degli Studi di Siena (CSC); *Socio-Economic Networks and Coalitions Analysis* (SENECA) of the University of Venice; *Gruppo di Ricerca per l'Analisi delle Scelte Sociali* (GRASS).

Referee for Grants: The Netherlands Organisation for Scientific Research (NWO).

Research projects as member: 2008-09 PRIN project 2007TKLTSR “Computational markets design and agent-based models of trading behavior”; 2006-08 EU-STREP project no. 516446 COMPLEXMARKETS.

Research projects as principal investigator, positively valued but not funded: "Identity in Social Networks", European Research Council 2010 Starting Grants, after two successful steps of evaluation and interview in Bruxelles: “...your proposal passed the evaluation thresholds, thereby confirming it as a fundable proposal.”

Organized workshops: Programme Committee member of *Artificial Economics 2011* (the Hague, 1-2 September 2011); *7th International Conference on Lattice Path Combinatorics and Applications* (Siena, July 2010); *Max Weber Programme Conference* (Florence, June 2009).

Teaching

at the Università degli Studi di Siena:

- *spring 2012, Mathematics, PhD in Economics;*
- *fall 2011, Pre-course in Mathematics, Master in Economics;*
- *fall 2011, Pre-course in Microeconomics, Master in Economics;*
- *spring 2011, Macroeconomia, undergraduate;*
- *spring 2010, Macroeconomia, undergraduate;*
- *spring 2010, Teoria dei giochi, Master in Economics;*
- *fall 2009, Teoria dei giochi, Master in Mathematics;*
- *fall 2009, Research Workgroup on Social Interactions, PhD in Economics;*
- *spring 2009, Macroeconomia, undergraduate;*

at the University of Venice:

- *fall 2008, Mathematics, Master;*
- *spring 2008, Economia Politica Avanzato, Master;*
- *fall 2007, Mathematics, Master;*
- *fall 2006, Matematica I, prima parte, undergraduate;*
- *fall 2006, Mathematics, Master;*

teaching assistances:

- *spring 2007, Economia Politica II, undergraduate;*
- *spring 2007, Economia Politica I, undergraduate;*
- *spring 2007, Microeconomics II, PhD in Economics;*
- *fall 2006, Mathematics, PhD in Economics;*
- *spring 2006, Economia Politica II, undergraduate;*
- *spring 2006, Matematica II, undergraduate;*
- *fall 2005, Mathematics, PhD in Economics.*

Invited lectures:

- *“Complex Networks & (real) Social Networks”, Università di Pisa, December 2011;*
- *“Social networks in Economics”, University of Bologna in Forlì, June 2010;*
- *Lecture on Complex Networks at the High School Sarrocchi in Siena, January 2010;*
- *“Social networks in Economics”, Humboldt University in Berlin, January 2009.*

I am in the Faculty Board of the PhD Program in Economics at the University of Siena.

PhD Students:

Sladjana Pavlinovic (May 2011, Siena) “Three Essays on Consumer Communication and Information Asymmetry”.

PhD Commissions:

Gergely Horváth (July 2011, Alicante) “Three Essays on Dynamic Processes and Information Flow on Social Networks”;

Roman Chuhay (January 2011, Alicante) “Three Essays on Social Networks”;

Michel Alexandre da Silva (April 2010, Siena) “Group Inequality, Endogenous Categorization and Neighborhood Effects”;

Anna Papaccio (February 2010, Siena) “Essays on Markets and Networks”.

Master Students (in Siena):

Marco Pelliccia (July 2009) “Free trade e networks” (this thesis won the ARS 2011 Master's thesis award competition).

References:

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