

# Paolo Pin

Dipartimento di Economia Politica, Università degli Studi di Siena  
Piazza San Francesco 7, 53100 Siena, Italy

Tel.: +39 0577 232692

[pin3@unisi.it](mailto:pin3@unisi.it) - <http://www.econ-pol.unisi.it/paolopin/>

## Curriculum Vitae

**From December 2008:** *Ricercatore non confermato* at the Dipartimento di Economia Politica 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.

## Refereed publications

- 1) **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;
- 2) **An Economic Model of Friendship: Homophily, Minorities and Segregation** (2009), with Sergio Currarini and Matthew O. Jackson, *Econometrica* 77 (4), 1003-1045;
- 3) **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;
- 4) **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;
- 5) **Statistical Mechanics of maximal independent sets** (2009), with Luca Dall'Asta and Abolfazl Ramezanzpour, *Physical Review E* 80 (6), 061136;
- 6) **Optimization in task-completion networks** (2008), with Luca Dall'Asta and Matteo Marsili, *Journal of Statistical Mechanics*, P02003;
- 7) **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;
- 8) **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;
- 9) **Evolution of Risk Preferences** (2006), *Mathematical Methods in Economics and Finance*, 1 (1), 65-76;
- 10) **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

- 11) **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);
- 12) **Optimal equilibria of the best shot game** (2009), with Luca Dall'Asta and Abolfazl Ramezanzpour, Working Papers of the FEEM Foundation (n° .33.2009);
- 13) **A network model of price dispersion** (2008), with Giacomo Pasini and Simon Weidenholzer, Working Papers of the FEEM Foundation (n° .28.2008);
- 14) **Opportunity and choice in social networks** (2008), with Silvio Franz and Matteo Marsili, Working Papers of the FEEM Foundation (n° .24.2008);
- 15) **Eight Degrees of Separation** (2008), Working Papers of the Max Weber Programme at the European University Institute (EUI MWP 2008/44);
- 16) **Selection matters** (2006), Working Papers of the Department of Applied Mathematics, University of Venice (n° .138.2006);

## Books

17) 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 working paper "**Eight Degrees of Separation**" [13] won the *Vinci prize*, of the Parthenope University of Naples, for papers extracted from the PhD thesis.

## Presentations at seminars and workshops

- 2010:**
- seminar, IMT, Lucca, June 14;
  - seminar, Department of Economics, EUI, Florence, April 27;
  - seminar, Center for Complex Systems, University of Siena, April 16;
- 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;
  - *24<sup>th</sup> 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;
  - *14<sup>th</sup> 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;
  - *13<sup>th</sup> 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;
  - *22<sup>nd</sup> 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;
  - *12<sup>th</sup> Conference on the Foundations of Utility and Risk Theory*, LUISS University, Rome, June;
  - *1<sup>st</sup> Conference on Economic Sciences with Heterogeneous Interacting Agents*, Bologna, June;
  - *Spring Meeting of Young Economists*, Seville, May;

- *QED Workshop*, Vienna, May;
- *11<sup>th</sup> 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) *American Economic Review* (2010), *Games and Economic Behavior* (2010), *International Journal of Game Theory* (2010), *Journal of Evolutionary Economics* (2010), *Journal of Economic Behavior and Organization* (2009), *Mathematical Social Sciences* (2009), *Molecular Psychiatry* (2009), *Open Economic Journal* (2009), *Research in Economics* (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:** Econometric Society; *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).

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

**Organized workshops:** 7th International Conference on Lattice Path Combinatorics and Applications (Siena, July 4th-7th 2010); *Max Weber Programme Conference* (Florence, June 2009).

## Teaching

at the Università degli Studi di Siena:

- *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*;
- fall 2006, *Mathematics, PhD*;
- spring 2006, *Economia Politica II, undergraduate*;
- spring 2006, *Matematica II, undergraduate*;
- fall 2005, *Mathematics, PhD*.

**PhD Commissions:**

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

**Master Students (in Siena):**

Marco Pelliccia (July 2009) “Free trade e networks”.

**Invited lectures:**

- “*Social networks in Economics*”, University of Bologna in Forli, June 11th 2010;
- *Lecture on Complex Networks* at the High School Sarrocchi in Siena, January 2010;
- “*Social networks in Economics*”, Humboldt University in Berlin, January 2009.

**References:**

Sergio Currarini  
University of Venice  
[s.currarini@unive.it](mailto:s.currarini@unive.it)  
<http://venus.unive.it/currarin>

Matthew Jackson  
Stanford University  
[jacksonm@stanford.edu](mailto:jacksonm@stanford.edu)  
<http://www.stanford.edu/~jacksonm>

Fernando Vega Redondo  
EUI, Florence  
[Fernando.Vega@EUI.eu](mailto:Fernando.Vega@EUI.eu)  
<http://www.eui.eu/Personal/fvega>

Siena, March 30<sup>th</sup> 2010