

# Constanza Fosco

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## Contact information

Instituto de Economía  
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Born in Bilbao, Spain, May 9th 1966. Married, one daughter.  
Citizenship: Argentinean. Permanent Residence: Chile.

## Education

Quantitative Economics Doctorate, 2008, Universidad de Alicante, Spain.  
Diploma de Estudios Avanzados, 2004, Universidad de Alicante, Spain.  
Master of Arts in Economics, 2000, Georgetown University/ILADES, Chile.  
Licenciada en Economía, 1994, Universidad Nacional de Córdoba, Argentine.

## Employment

Assistant Professor (Profesor Asistente Adjunto). Institute of Economics, Universidad Católica de Chile (dec 2012 - ). Coordination Math area.

Associate Professor. Economics Department, Universidad Católica del Norte, Chile (aug 2009 - nov 2012)

Post-Doc Researcher. Grupo Interdisciplinar de Sistemas Complejos (GISC), Departamento Matemáticas, Universidad Carlos III de Madrid, Spain (jun 2008 - jun 2009)

Teaching Assistant. Departamento Fundamentos de Análisis Económico, Universidad de Alicante, Spain (sept 2002 - may 2008)

Associate Researcher. Departamento Economía y Administración, Universidad Alberto Hurtado, Santiago, Chile (nov 1999 - aug 2002)

Researcher. Instituto de Estudios sobre la Realidad Argentina y Latinoamericana (IERAL) de Fundación Mediterránea, Córdoba, Argentina (feb 1995 - jun 1997)

## Affiliation

Associate Researcher. Grupo Interdisciplinar de Sistemas Complejos, GISC (jul 2009 - )

## Research interests

Games and diffusion processes in complex networks/systems; Game Theory (classical & evolutionary). Computational models.

## Publications (ISI)

Cooperation through imitation and exclusion in networks. *Journal of Economics Dynamics & Control* 35, 2011 (joint with Friederike Mengel)

Turnout Intention and Random Social Networks. *Advances in Complex Systems* 14, 2011 (joint with Annick Laruelle and Angel Sánchez).

Social Experiments in the Mesoscale: Humans Playing a Spatial Prisoner's Dilemma. *PLoS ONE* 5, 2010 (joint with Jelena Grujić, Lourdes Araujo, José Cuesta and Angel Sánchez).

Peer effects and peer avoidance: epidemic diffusion in coevolving networks. *Journal of the European Economic Association* 8, 2010 (joint with Matteo Marsili and Fernando Vega Redondo).

## Working Papers

Let me participate and I will comply. Nov 2012 (joint with Francesca Bortolami and Luigi Mittone), (submitted).

Spatial diffusion and commuting flows. Documentos de Trabajo en Economía, Universidad Católica del Norte, WP2012-16, 2012.

Incentives and social networks. METEOR RM/08/022 Universiteit Maastricht, 2008 (joint with Friederike Mengel).

Mercados de Gas Natural. Análisis comparado de la experiencia internacional. Doc. Inv. I-149, Dept. Economía, U. A. Hurtado (Chile), 2003 (joint with Eduardo Saavedra).

Sustituibilidad de energéticos y la política (des) regulatoria del Gas Natural en Chile. Doc. Inv. I-148, Dept. Economía, U. A. Hurtado, 2003 (joint with Eduardo Saavedra).

Precios del Gas Natural en Chile. Doc. Inv. I-147, Depto. Economía, U. A. Hurtado, 2003 (joint with Eduardo Saavedra).

Estructura de la industria y relaciones patrimoniales del Gas Natural en Chile. Doc. Inv. I-146, Depto. Economía, U. A. Hurtado, 2003 (joint with Eduardo Saavedra).

## Projects participations (main projects)

FONDECYT-Chile - Initiation project N° 11100349 (oct 2010 - sept 2012).

External researcher. *Games and Social Choice Theory: foundations and applications (II)*, principal researcher Federico Valenciano Llovera, Departamento de Economía Aplicada IV, Universidad del País Vasco. Financed by Ministerio de Ciencias e Innovación, Spain, (B.O.E. 315, 31-12-2008). (2010-2012)

Post-doc researcher: *Modelización, simulación y Análisis de Sistemas Complejos (MOSAICO)*, (principal researcher: Ángel Sánchez), Grupo Interdisciplinar de Sistemas Complejos, Departamento de Matemáticas, Universidad Carlos III de Madrid. Financed by MEC (Spain), FIS2006-01485, CONSOLIDER (jun 2008 - jun 2009).

Researcher. *Mercados de Gas Natural en Chile: Estructura y Sustituibilidad*, principal researcher Eduardo Saavedra, Departamento de Economía y Administración, Universidad Alberto Hurtado, Chile. Financed by Comisión Nacional de Energía, Chile. (oct 2001 - jan 2002).

Principal researcher. *Financiamiento de la Educación Superior en Chile*, Departamento de Economía y Administración, Universidad Alberto Hurtado, Chile. Financed by INACAP. (jun 2000 - march 2001).

## Summer Schools

Summer Course, Mathematics and Society: Cooperation, Social Networks and Complexity (GISC/IMI), San Lorenzo del Escorial, Spain, July, 15th - 18th 2008.

School and workshop on Structure and function of complex networks, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy, May 16th - 28th 2005.

## Academic Visits

Departamento de Fundamentos del Análisis Económico I, Universidad del País Vasco, Bilbao, Spain, September 29th - October 5th, 2008

The Abdus Salam ICTP (Statistical Mechanics and Interdisciplinary Applications' Research Group within the Condensed Matter and Statistical Physics Section), Trieste, Italy, October 1st - December 15th, 2005

## Teaching

Pontificia Universidad Católica de Chile (since 2012): Microeconomics II, Mathematical Economics.

Universidad Católica del Norte, Chile: Mathematics (Master), Econometrics, Statistics (undergrad.)

Universidad de Alicante, Spain (TA): Microeconomics II (Game Theory) (PhD program), Mathematics, Statistics and Introduction to Econometrics (undergrad.).

Universidad Alberto Hurtado, Chile: Financial Economics (Master), Algebra, Statistics and Econometrics (undergrad.)

P. Universidad Católica de Chile (2001-2002): Financial Economics (Master)

## Scholarships

Pre-doctoral scholarship. Investigación y Docencia en Fundamentos del Análisis Económico, Universidad de Alicante (2002-2004)

Konrad Adenauer Stiftung scholarship, Postgraduate Program ILADES/Georgetown University, Chile (1997-1999)

## Other

*Presentations:* Departamento Economía Agraria PUC, 2012; SOCHER, Coquimbo, 2012; Universidad Católica del Norte, 2010; SECHI, Talca, 2010; Workshop GISC 2009, Spain; Workshop Working Group 4 "Evolution and Co-evolution" (COST Action MP 0801 "Physics of Competition and Conflict"), Spain, 2009; Universidad del País Vasco, Spain, 2008; Workshop Ineck/GREQAM Marsella, France, 2008; Universidad Católica de Chile, 2006.

*Referee:* PLOS One, Journal of Evolutionary Economics, Games and Economic Behavior, Latin American Journal of Economics, International Journal of Game Theory, European Physical Journal B, FONDECYT-Chile.

*Languages:* Spanish (native); English (fluent); German (reading); French (reading).

*Software:* Python, Gauss, Mathematica, Maxima, Gretl, LaTeX.