

Constanza Fosco

Contact information

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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

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: Scientific Reports, PLOS One, Journal of Evolutionary Economics, Games and Economic Behavior, Review of Network Economics, 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.