

# Antoni Rubí Barceló

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## Personal details

Born August 30, 1980 in Santa Maria del Camí, Balearic Islands  
Citizenship: Spanish I.D. 43.115.597-G

## Academic position

Ph.D. Candidate, Department of Economics, Universitat Pompeu Fabra.  
Expected date of PhD Dissertation: February 8<sup>th</sup> 2008.  
Advisor: Antonio Cabrales

## Education

2004-	Ph.D. Candidate in Economics at Universitat Pompeu Fabra
2003-2004	Master Advanced of Science in Economics at Universitat Pompeu Fabra with honors
2002-2003	Master of Science in Economics at Universitat Pompeu Fabra with honors
1998-2002	Bachelor in Management and Business Administration at Universitat de les Illes Balears

## Fields of interest

Microeconomics, Game Theory, Network Formation Games, Social Networks;  
Bargaining

## Professional and teaching experience

2005-2007	Assistant of Andreu Mas-Colell at Universitat Pompeu Fabra
2003-2005	Teaching Assistant for the undergraduate courses: Public Sector I, Public Sector II, Economic evaluation of Public Programs and Political Economy (Universitat Pompeu Fabra)
Summer 2001	Summer Intern at Centre Balears Europa (Govern Balear)

## Scholarships

2008	Graduate Fellowship, Generalitat de Catalunya
2004-2008	Ph.D. scholarship, Fundación Ramón Areces
2003	T.A. scholarship, Universitat Pompeu Fabra

## Working Papers

“Scientific Collaboration Networks: the role of Heterogeneity and Congestion”, April 2007

“Can you really get rich because of a Structural Hole?”, November 2006

“Networks and Imperfect information”, July 2005

Work in Progress: “Searching for Unquestionable agreements”, december 2004

### **Academic Visits**

(forthcoming) February 2008-July 2008. **University of Cambridge**. Cambridge, UK.

### **Conference presentations**

(forthcoming) **Royal Economic Society Conference**. Warwick, UK. March, 2008.

**XXXII Simposio de Análisis Económico**. Granada, Spain. December, 2007.

**Annual Meeting of the Association of Southern European Economic Theorists**. Padova, Italy. November, 2007.

**Economics and Management of Networks**. Rotterdam, Netherlands. June, 2007.

**Augustin Cournot Doctoral Days**. Strasbourg, France. April, 2007.

**XXII Jornadas de Economía Industrial**. Barcelona, Spain. September, 2006.

### **Job Market Paper**

*“Scientific collaboration networks: the role of heterogeneity and congestion”*, (2007).

#### **Abstract**

We propose a dynamic model to analyze the formation of scientific collaboration networks. In this model, individuals continuously make decisions concerning the continuation of existing collaboration links and the formation of new links to other researchers through a link formation game. Once the network has been constituted, ideas arrive from outside of the network to every node at a constant rate and agents are able to require the collaboration of one of the previously selected coauthors to increase the chances to publish articles based on those ideas. Agents are heterogeneous -they have different levels of productivity-, and they have a limited processing capability; so congestion can arise when a researcher receives a sufficiently high amount of collaboration requests. Consequently, the decision of whether to form a link must consider the trade off between the rewards (or costs) from collaborating with more (or less) productive agents and the costs (or rewards) from collaborating with more (or less) congested co-authors.

Focusing on the role of heterogeneity among agents' productivity and congestion problems derived from their limited processing capability we show how self-interested researchers can organize themselves forming the kind of scientific collaboration network topologies observed in reality.

### **Language Skills**

Catalan and spanish (native), english (fluent), italian (basic), french (basic)

### **Computing Skills**

Matlab, Stata, WinEdt, Scientific Workplace

### **Other**

Personal record in Marathon (42.195 Km): 3h 14'36'' (Marató de Barcelona, 2007)