

## ÁNGEL LUIS LÓPEZ

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### EMPLOYMENT

Associate Professor (agregado interino), Departament d'Economia Aplicada, UAB, Sept. 2014 - present

Assistant Professor, Departament d'Economia Aplicada, UAB, Sept. 2013 – August 2014

Assistant Professor, Department of Economics, University of Navarra, Sept. 2012 – August 2013

Post-doctoral researcher, IESE Business School, Barcelona, Sept. 2007 – August 2012

### PERSONAL INFORMATION

Year of birth: 1978

Gender: male

Citizenship: Spanish

### DOCTORAL STUDIES

Toulouse School of Economics (TSE), France

Ph.D. in Economics, September 2002 – June 2007

Thesis: "Interconnection and the Dynamics of Competition in Telecommunications"

Thesis Advisor: Professor Patrick Rey

### PRIOR EDUCATION

July, 2004 DEEQA (M.Phil) in Mathematical Economics and Econometrics, Toulouse School of Economics, France

July, 2003 M.Sc. Transports and Networks Industrial Economics, Toulouse School of Economics, France

July, 2002 M.Sc. Economic Analysis, University of Las Palmas, Spain

July, 2000 B.S. Economics, University of Las Palmas, Spain

### FIELDS

Primary Fields: Industrial Organization, Microeconomics, Regulation and Antitrust

Secondary Fields: Banking, Blockchain, Energy, Payment Systems, Telecommunications

### TEACHING EXPERIENCE

2019 **Course on Cryptonomics and the Blockchain** (English), ESADE Business School

2014 - present **Mathematics** (English), Master in Applied Research in Economics and Business, Universitat Autònoma de Barcelona

2013 - present **International Economics** (English), Universitat Autònoma de Barcelona

2012-2013	<b>Intermediate Microeconomics</b> (English) and <b>Industrial Organization</b> (English & Spanish), University of Navarra
2010-2017	<b>Lecture on Networks and Standards</b> (graduate studies, PhD program, English), IESE Business School
2008-2012	<b>Telecommunications Economics</b> (graduate, MSc Industrial Economics, Spanish), University of Valencia, guest professor, 5 academic years
2008	<b>Telecommunications Economics</b> (graduate studies, PhD program, English), IESE Business School, teaching fellow for Xavier Vives

#### FELLOWSHIPS AND RESEARCH GRANTS

2019-2021	R&D Project: "Industrial Economics of Financial Markets", PGC2018-096325-B-I00 (Spanish Ministry of Science, Innovation and Universities and the European Regional Development Fund)
2019-2021	R&D Project: "Regulation and Markets: Behavior, Innovation and Environmental Externalities", RTI2018-097434-B-I00 (Spanish Ministry of Science and Competitiveness)
2017-2019	AGAUR, 2017 SGR 1301 (GRC)
2016-2018	R&D Project: "Avances en organización industrial, finanzas y economía experimental", ECO2015-63711-P (Spanish Ministry of Science and Competitiveness)
2015-2017	R&D Project: "Infrastructures: economic efficiency and regulation", ECO2014-52999-R (Spanish Ministry of Science and Competitiveness)
2014-2016	AGAUR, SGR 1326 (GRC)
2012-2014	R&D Project: "Advances in Industrial Economics and Finance", ECO2011-29533 (Spanish Ministry of Science and Innovation)
2011	Summer grant. NET Institute 2011
2010	Summer grant. NET Institute 2010
2009-2014	AGAUR, SGR 1062 (GRE)
2009-2011	"Juan de la Cierva" research fellowship from the Spanish Ministry of Science and Innovation
2008-2011	R&D Project: "Advances in Industrial Economics, Game Theory and Finance", ECO2008-05155 (Spanish Ministry of Science and Innovation)
2005-2007	Fellowship "Fundación Caja Madrid" for Ph.D. programs abroad
2002-2004	Research Fellowship at University of Las Palmas, Spain
2001-2004	Research Grant, Project: "Liberalization / Regulation of Telecommunication Sector in Spain"
2001-2002	Research Fellowship of the Applied Economic Analysis Department, University of Las Palmas, Spain

#### PUBLICATIONS

**Overlapping Ownership, R&D Spillovers, and Antitrust Policy**, with Xavier Vives.  
Journal of Political Economy, Volume 127, no 5 (October 2019): 2394-2437.

**Silent Financial Interests and Product Innovation**, with Anna Bayona.  
Economics Letters, Volume 170, September 2018, pp. 109-112.

**Foreclosing Competition through Access Charges and Price Discrimination**, with Patrick Rey.  
The Journal of Industrial Economics, Volume 64, September 2016, pp. 436-465

**Methods for the management of distributed energy networks using software agents and market mechanisms: A survey**, with I. López-Rodríguez and M. Hernancez-Tejera.  
Electric Power Systems Research, Volume 136, July 2016, pp. 362-369.

**Mobile Termination, Network Externalities, and Consumer Expectations**, with Sjaak Hurkens.  
The Economic Journal, Volume 124, Issue 579, September 2014, pp. 1005-1039.

**Optimal asset divestments with homogeneous products**, with Giulio Federico.  
International Journal of Industrial Organization, Volume 31, Issue 1, January 2013, pp. 12-25.

**The Welfare Effects of Mobile Termination Rate Regulation in Asymmetric Oligopolies: the Case of Spain**, with Sjaak Hurkens.  
Telecommunications Policy, Volume 36, Issue 5, June 2012, pp. 369-381.

**Government, taxes and banking crises**, with Augusto Hasman and Margarita Samartín.  
Journal of Banking & Finance, Volume 35, Issue 10, October 2011, pp. 2761-2770.

**Asymmetric access pricing in the Internet backbone market**.  
Economics Letters, Volume 112, Issue 1, July 2011, pp. 3-6.

**Mobile termination rates and the receiver-pays regime**.  
Information Economics and Policy, Volume 23, Issue 2, June 2011, pp. 171-181.

**Selecting effective divestments in electricity generation markets**, with Giulio Federico.  
European Transactions on Electrical Power, Volume 21, Issue 6, Sept. 2011, pp. 1914-1922.

#### RESEARCH PAPERS

**Incentives to acquire non-controlling minority stakes revisited**, with Anna Bayona and Anton-Giulio Manganelli. (Research in Progress)

**Who should pay for two-way interconnection?** with Sjaak Hurkens.

**Mobile penetration under CPP and RPP**, with Sjaak Hurkens. (Research in Progress)

**Abusive incentive contracts: British Airways revisited**, with Giulio Federico and Pierre Régibeau. (Research in Progress)

**Using future access charges to soften network competition**.

#### PUBLICATIONS IN SPANISH

**Book/Report: Competition and Regulation in Spanish telecommunications markets**  
Informes del Centro Sector Público – Sector Privado, 3, 2009. IESE Business School.

**Precios de terminación de llamada en telefonía móvil. Sus efectos sobre la competencia y el bienestar social**.  
Cuadernos Económicos de ICE, Volume 81, June 2011, pp. 71-101.

**Despliegue de redes de telecomunicaciones y difusión de banda ancha**.  
Economistas “España 2008. Un balance”.

**Inversión en banda ancha: Competencia en infraestructuras y competencia en servicios**, with Xavier Vives.

Economistas “España 2007. Un balance”.

**Impacto de la Liberalización en el Sector de las Telecomunicaciones**, with Augusto Hasman.

Economistas “España 2006: Un balance”.

#### CONFERENCES AND WORKSHOPS

##### **(P) – Presentation, (D) – Discussion**

(P)	Exp. Sep. 2020	invited talk: “Frontiers in Theoretical IO” in the XXXV Jornadas de Economía Industrial
(P)	August 31st and Sept. 2nd, 2018	EARIE 2018. 45th Annual Conference of the European Association for Research in Industrial Economics, Athens, Greece
(P)	February, 2018 (planned)	Conference: “La revolución de las criptomonedas y el blockchain”, UIC, Barcelona, 7 de febrero
(D)	November-December, 2017	Workshop on Innovation and Industrial Organization, PRODECON-CM project, Cemfi-CSIC, Madrid
(P)	June-July, 2017	CRESSE 2017, 12th International Conference on Competition and Regulation, Heraklion – Crete, Greece
(P)	December, 2015	40 Simposio de la Asociación Española de Economía, Girona
(P)	August, 2015	World Congress of the Econometric Society, Montreal, Canada
(P&D)	September, 2014	XXIX Jornadas de Economía Industrial (Barcelona Graduate School of Economics), Barcelona, Spain
(P)	May, 2014	Fifteenth CEPR/JIE Conference on Applied Industrial Organization (Athens University of Economics and Business, IOBE, Bank of Greece, Hellenic Competition Commission, JIE, CEPR), Athens, Greece
(P)	March, 2014	MaCCI Annual Conference, Center for European Economic Research ZEW, Mannheim, Germany
(P&D)	January, 2014	XXI Encuentro de Economía Pública, University of Girona, Spain
(P)	December, 2013	Barcelona GSE Winter Workshop on Microeconomics, Institute for Economic Analysis (IAE-CSIC), Barcelona, Spain
(D)	September, 2013	Innovación y Regulación en las TIC. Una Perspectiva Comparada entre Europa y América Latina (CEPAL, United Nations & IBEI), Barcelona, Spain
(P)	August, 2013	EEA-ESEM 2013 (28 <sup>th</sup> Annual Congress of the European Economic Association), University of Gothenburg, Sweden
(P)	July, 2012	CRESSE 2012 (Seventh International Conference on Competition and Regulation), Chania, Crete, Greece
(P)	March, 2012	4 <sup>th</sup> Barcelona IO Workshop, IESE Business School, Barcelona, Spain
(P)	August, 2011	EEA-ESEM 2011 (26 <sup>th</sup> Annual Congress of the European Economic Association), University of Oslo, Norway
(P&D)	March 31st and April 1st, 2011	2 <sup>nd</sup> Workshop on the Economics of ICTs, University of Évora (CEFAGE), Portugal
(P)	March, 2011	Workshop in Economy of Telecommunications, The Spanish Telecommunications Market Commission (CMT), Pompeu Fabra University, Barcelona Graduate School of Economics & FEDEA, Spain
(P)	March, 2011	Economics of Communications and Media markets: from theory to practice, Florence School of Regulation Communications & Media (European University Institute), Italy

(P)	February, 2011	Workshop on Telecommunications Economics, University of Barcelona, Spain
(P)	July, 2010	8 <sup>th</sup> ZEW Conference on the Economics of Information and Communication Technologies, Centre for European Economic Research (ZEW), Mannheim, Germany
(P)	September, 2009	XXIV Jornadas de Economía Industrial (Industrial Economy Conference), University of Vigo, Spain
(P)	September, 2009	EARIE09 (36th Annual Conference), Ljubljana, Slovenia
(P)	August, 2009	EEA09 (24th Annual Congress of the European Economic Association), Barcelona, Spain
(P)	June, 2009	Conference on the Economics of Information and Communication Technologies, TELECOM ParisTech, France
(P)	April, 2009	Telecommunications Conference: current situation of national and international markets, University of Barcelona and The Spanish Telecommunications Market Commission (CMT), Spain
(P)	February, 2009	Workshop on the Telecoms Industry, IESE Business School, Spain
(D)	September, 2008	XXIII Jornadas de Economía Industrial (Industrial Economy Conference), University of Rovira i Virgili, Spain
(D)	May, 2008	Workshop: Industrial Organization and Health, IESE Business School, Spain
(D)	April, 2008	Privatization, Partnership and Public Delivery (PPPSD): Government and Governance, Centre for Economic Policy Research (CEPR) and the Public-Private Sector Research Center, IESE Business School, Spain
(D)	March, 2008	IO Contracts and Organization, IESE Business School, Spain
(P)	January, 2008	Competition and Regulatory Policy Workshop (CCRP: Centre for Competition and Regulatory Policy, City University London and University of Las Palmas), University of Las Palmas, Spain
(P)	June, 2007	Conference on the Economics of ICT, Telecom Paris, France
(P)	December, 2006	XXXI Symposium of Spanish Economic Association (SAEe), University of Oviedo, Spain
(P)	December, 2004	XXIX Symposium of Spanish Economic Association (SAEe), University of Navarra, Spain
(P)	September, 2002	ITS 13 <sup>th</sup> European Regional Conference & EARIE, Madrid, Spain

#### SEMINAR PRESENTATIONS

November, 2018	Office of Communications (Ofcom, London, UK)
December, 2015	Universitat Rovira i Virgili
April, 2015	ESADE Business School
December, 2014	Paris School of Economics, France
November, 2014	CEMFI, Madrid, Spain
December, 2013	Universitat de Barcelona, Barcelona, Spain
February, 2013	Autonomous University of Barcelona, Barcelona, Spain
May, 2012	Autonomous University of Barcelona, Barcelona, Spain
February, 2012	Compass Lexecon, London, England
February, 2012	University of Alicante, Spain
February, 2012	IE Business School, Madrid, Spain
February, 2012	IESE Business School, Barcelona, Spain
January, 2012	Bank of Canada, Ottawa, Canada
January, 2012	University of Navarra, Spain
January, 2012	University of Valencia, Spain

October, 2011	Institute for Economic Analysis (CSIC) & UAB, Spain
November, 2009	University of Las Palmas, Spain
October, 2009	University of Valencia, Spain
October, 2009	Technical University of Lisbon/IST, Portugal
March, 2009	Fedea (Foundation for Applied Economic Studies), Spain
November, 2008	Pompeu Fabra University, Spain
October, 2008	IESE Business School (SP-SP Research Center), Spain
December, 2007	IESE Business School (SP-SP Research Center), Spain
November, 2007	University of Valencia, Spain
May, 2007	LECG, Madrid, Spain
March, 2007	University of Rovira i Virgili, Spain

#### PRESENTATIONS TO BUSINESS EXECUTIVES

June, 2016	IESE – XV Coloquio Servicio Público – Gestión Privada: Fronteras de la Economía Digital. Presentation: “Net Neutrality. A Brief Economic Analysis”
June, 2013	IESE – XIX Meeting of Telecom, Digital Media y Information Society. Presentation: “Personalizing Mobile Commerce and Mobile Marketing”, Madrid, Spain
July, 2012	IESE – XVIII Meeting of the Telecommunication Sector and Information Society. Presentation: “The Personalization of Mobile Marketing and Mobile Commerce”, Madrid, Spain
May, 2011	IESE – XVII Meeting of the Telecommunication Sector and Information Society. Presentation “An introduction to Net Neutrality”, Madrid, Spain
April, 2011	IESE – Continuous Education Session for IESE Alumni in Barcelona. Presentation “Public-Private Partnership in the deployment of next generation networks”, Barcelona, Spain
June, 2010	IESE - XVI Meeting of the Telecommunication Sector (The impact of the audiovisual revolution) Presentation: “New Competitive Environment”, Madrid, Spain
March, 2010	IESE – Continuous Education Session for IESE Alumni in Barcelona. Presentation: “Spanish Telecommunication Sector: Current Situation and Prospects”, Barcelona, Spain
October, 2009	IESE (SP-SP Research Center) – Fundación Rafael del Pino. Presentation: Report “Competition and regulation of Spanish Telecommunication markets”, Madrid, Spain
July, 2009	“Cercle per al Coneixement” (Circle of Knowledge) – Barcelona Breakfast. Presentation: Report “Competition and regulation of Spanish Telecommunication markets”, Barcelona, Spain
March, 2009	Network for Economic Research on Electronic Communications. Presentation: “The Ladder of Investment in Spain”, Madrid, Spain

#### INVITED TO ATTEND

March, 2012	IDEI / Microsoft Workshop on the Economics of Online Search and Search Advertising, Paris, France
July, 2011	European Summer Symposium in Economic Theory, Study Center Gerzensee, Switzerland
April, 2009	Workshop on Telecommunications Economics, COST Network (Econ@Tel), Telecom ParisTech, France
February, 2009	Conference on “Producers and Distributors: Can Regulation of Retail Help Better Regulation of the Internet?”, Chaire Innovation et Régulation, Paris

School of Economics, France  
 November, 2008 Workshop on “Next Generation Access Networks”, ENTER (IE Business School) and NEREC, Spain

#### EXPERIENCE IN ORGANISING ACADEMIC EVENTS

October 2018	II Jornada de competencia y regulación en el mercado de las telecomunicaciones, CELLNEX – IESE Business School	Coordinator
March 2017	Jornada de competencia y regulación en el mercado de las telecomunicaciones, IESE Business School	Coordinator
July 2014	18 <sup>th</sup> Centre for Competition and Regulatory Policy Workshop	Academic & Organizing Committee
March 2012	4 <sup>th</sup> Barcelona IO Workshop, IESE Business School. 3 papers & 3 discussants	Coordinator
October 2010	“Armand Carabén” Workshop on Sports Economics, IESE Business School. 8 papers & 8 discussants	Coordinator
February 2009	Research Workshop on the Telecoms Industry, IESE Business School. 4 papers & 4 discussants	Coordinator
June 2008	Research Workshop on Industrial Organization, IESE Business School. 8 papers & 8 discussants	Coordinator
2007-2012	Lunch Seminar Program, Public-Private Sector Research Center, IESE Business School	Coordinator

#### REFEREEING

Economic Journal, Economics Letters, Information Economics and Policy, International Journal of Industrial Organization, International Review of Law and Economics, Journal of Applied Economics, Journal of Economics & Management Strategy, Journal of Economic Theory, Journal of Industrial Economics, Journal of Institutional and Theoretical Economics, Journal of the European Economic Association, Review of Industrial Organization, Telecommunications Policy, The RAND Journal of Economics, Review of Network Economics

#### EVALUATION SERVICE

Scientific Committee – 2nd Catalan Economic Society Conference  
 European Research Council, Starting Grants 2011  
 “Basic Research Funding Program”, Athens University of Economics and Business (AUEB).  
 Evaluation of proposals to fund research projects of AUEB Faculty members. November-December 2010

#### LANGUAGES

Spanish (mother tongue), English (fluent), French & Russian (beginner)

#### COMPUTER SKILLS

Smart Contract Programming Language for Ethereum blockchain: Solidity  
 Software and Networks: Java  
 Websites: Javascript, React, HTML, CSS  
 Text: LaTeX  
 Math: Maple, Mathematica, MATLAB  
 Databases: MySQL, PHP