

# Steffen Hoernig

(JANEIRO 2016)

Associate Professor  
Nova SBE  
Universidade Nova de Lisboa  
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<b>Personal Information</b>	Date of Birth: October 11, 1968	Citizenship: German
	Marital status: Married	Sex: M
	Children: born 2004, 2008	

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**Research Interests** Industrial Organization; Oligopoly Theory; Regulation

**Teaching Interests** Industrial Organization; Game Theory; Microeconomics

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**Scientific positions**

- 2012, March – June Visiting Scholar at MIT Sloan
- 2009 – Florence School of Regulation, Media and Communications: Scientific Committee
- 2008 – Associate Professor, Nova SBE, UNL, Portugal
- 2001 – 2008 Assistant Professor, Nova SBE, UNL, Portugal
- 2003 – ENCORE Fellow
- 2001 – 2015 CEPR Research Affiliate

**Editorial positions**

- 2015 – *Portuguese Economic Journal*: Associate Editor
- 2014 – *Telecommunications Policy*: Editorial Board
- 2013 – *Review of Economics*: Associate Editor
- 2008 – *Information Economics & Policy*: Associate Editor
- 2004 – 2007 *Information Economics & Policy*: Editorial Board

**Administrative tasks at Nova SBE**

- 2015 – Member of School Council
- 2015 – Member of Recruitment Committee
- 2015 – Academic Director, MSc in Economics
- 2010 – Committee for evaluation of assistant professors
- 2003 – Organizer of the Informal Research Workshop (IRW)
- 2009 – 2012 Member of the Coordinating Committee of the Scientific Council and substitute of its president

2009 – 2012 Organization of teaching schedule for professors and assistants, creation of database

2004 – 2007 PhD programme 2nd-year coordinator

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### **Academic Degrees**

**Agregação in Economics**, Universidade Nova de Lisboa, December 2007. Course in “Telecommunications Economics”

**Ph.D. in Economics**, European University Institute, Florence, March 2000. Thesis: “Essays on R&D-races and Cournot Oligopoly.”

Supervisor: James Dow, London Business School. Co-supervisors: Karl Schlag and Massimo Motta, EUI, Florence

**Diplom-Kaufmann (Master of Science in Business)**, Universität Bielefeld, July 1995. Thesis on “Tournament Contracts”

**Master of Applied Mathematical Sciences**, University of Georgia (UGA), Athens, GA, USA (1991-1992), Thesis on “Assembly Line Balancing”

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### **Awards and Scholarships**

FCT Research Project PTDC/EGE-ECO/100696/2008, “Fixed-mobile convergence in telecommunications: New modes of competition and regulatory pitfalls” (2010-2012, Project leader)

FCT Research Project PTDC/ECO/66092/2006, “A banda larga em Portugal: difusão, concorrência e desafios regulatórios” (2008-2011, Project leader)

Novaforum Research Grants 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013

FCT Research Project POCTI/ECO/44146/2002 (2004-2006), with José Mata, Nuno Garoupa e Pedro Pita Barros

FCT Research Project POCTI/ECO/37925 (2001-2003), project leader; with Pedro Pita Barros

EARIE 2000 Young Economist’s Prize

Post-doctoral fellowship, TMR network “The Evolution of Market Structure in Network Industries” 2000-01, at FEUNL

German Academic Exchange Service Scholarship for study at the EUI 1995-1998 (awarded on merit in national competition).

Awarded membership of honors society Phi Kappa Phi at UGA.

Studienstiftung des Deutschen Volkes Scholarship 1990-1995 (a merit scholarship awarded to approximately 0.5% of German university students nationwide).

German Academic Exchange Service Scholarship to pursue studies at UGA 1991-1992 (scholarship awarded on merit).

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**Teaching at Nova SBE** Markets and Competition (MBA), Microeconomic Analysis (MSc), Organization and Incentives (MSc), Advanced Industrial Organization (MSc), Microeconomic Theory I (PhD), Game Theory (MSc).

Previous courses: Games and Markets (MSc), Information and Games (undergraduate), Game Theory I and Game Theory II (MSc), Industrial Economics (PhD), Conduct in imperfectly competitive markets (MSc), Cálculo II, Economia Industrial II.

**Other teaching**

Florence School of Regulation, 2009 -

TA at Católica Portuguesa, Lisbon, 1998-1999.

TA at EUI, Florence, 1997.

TA at Universität Bielefeld, 1992-1995.

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**PhD Supervision:**

2012 – Marta Rocha, supervisor

2014 – Paulo Fagandini, co-supervisor

2014 – 2015 Daniel Horta, supervisor

2008 – 2012: David Henriques, co-supervisor

2006 – 2010: Pedro Carreira, supervisor

2004 – 2008: João Vareda, supervisor

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**Doctoral or Masters Juries:**

2014/01, Daniel Lima, MSc, ISEG

2011/07: Tong Wang, PhD, Toulouse School of Economics

2006/12: Sílvia Ferreira Jorge, PhD, FEUNL

2005/10: António Marques, PhD, FEP Porto

2005/01: Patrick Montgomery, MSc, IST, Lisboa

2001/10: Claudia Braz, MSc, FEUNL

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**Work in progress**

[“Going beyond Duopoly: Connectivity Breakdowns under Receiving Party Pays.”](#) December 2015, accepted at Information Economics and Policy.

[“Three equivalent Salop models and their normative representative consumer.”](#) July 2015.

“Edgeworth meets Hotelling in the Hinterland: A Location-Based Foundation for Linear Demand Systems”, under preparation.

“Cooperative Investments and Access Regulation for Next Generation Networks”, with Marc Bourreau and Carlo Cambini,

March 2014, under revision.

“Sectoral Regulators and the Competition Authority: Which Relationship is Best?” with Pedro Pita Barros, resubmitted at Review of Industrial Organization.

“Fixed-Mobile Bundling”, with Marc Bourreau and Carlo Cambini, under revision.

“Why Mobile Networks Prefer High Termination Rates: An Exploration of Strategic Delegation”, under revision.

“Asymmetric Broadband Wholesale Regulation”, under revision.

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**Publications in peer-reviewed journals**

[“Welfare Analysis of Regulating Mobile Termination Rates in the UK.”](#) 2015, with David Harbord, *Journal of Industrial Economics*, 63(4), 673-703.

[“Price distortion under fixed-mobile substitution.”](#) 2015, with Marc Bourreau and Carlo Cambini, *Economia e Politica Industriale*, 42(4), 441-454.

[“Transversal Agency and Crowding Out”](#), 2015, with Pedro Pita Barros and Tore Nilssen, *Journal of Institutional and Theoretical Economics*, 171(4), 589-608.

[“Geographic Access Markets and Investments.”](#) with Marc Bourreau and Carlo Cambini, 2015, *Information Economics and Policy*, 31, 13-21.

[“Fixed-Mobile Substitution and Termination Rates.”](#) 2015, with Marc Bourreau and Carlo Cambini, *Telecommunications Policy*, 39, 65-76.

[“The Strength of the Waterbed Effect Depends on Tariff Type.”](#) 2014, *Economics Letters*, 125, 291-294.

[“Calling clubs: Network Competition with Non-Uniform Calling Patterns.”](#) 2014, with Roman Inderst and Tommaso Valletti, *RAND Journal of Economics*, 45(1), 155-175.

[“Competition between multiple asymmetric networks: Theory and applications.”](#) 2014, *International Journal of Industrial Organization*, 32, 57-69.

[“Fixed-Mobile Integration.”](#) 2014, with Marc Bourreau and Carlo Cambini, *Journal of Regulatory Economics*, 45(1), 57-74.

[“Wholesale pricing, NGA take-up and competition”](#), 2012, with Stephan Jay, Werner Neu, Karl-Heinz Neumann, Thomas Plückebaum and Ingo Vogelsang, *Communications & Strategies*, 86(2), 153-174.

[“Strategic Delegation under Price Competition and Network Effects”](#), 2012, *Economics Letters*, 117, 487-489.

[“Ex-ante Regulation and Co-investment in the Transition to Next Generation Access”](#), 2012, with Marc Bourreau and Carlo Cambini, *Telecommunications Policy*, 36, 399-406.

- [“The editorial—Regulation and competition in communications markets”](#), 2012, with Carlo Cambini and Erik Bohlin, *Telecommunications Policy*, vol. 36, no. 5, pp. 357-359.
- [“The impact of different fibre access network technologies on cost, competition and welfare”](#), 2012, with Stephan Jay, Karl-Heinz Neumann, Martin Peitz, Thomas Plückerbaum and Ingo Vogelsang, *Telecommunications Policy*, 36, 96-112.
- [“When Two-Part Tariffs are not enough: Mixing with Nonlinear Pricing.”](#) 2011, with Tommaso Valletti, *The B.E. Journal of Theoretical Economics* (Contributions), Vol. 11(1), Article 21.
- [“Racing for Investment under Mandatory Access”](#), 2010, with João Vareda, *The B.E. Journal of Economic Analysis & Policy*: Vol. 10: Iss. 1 (Contributions), Article 67.
- [“National FTTH plans in France, Italy and Portugal.”](#) 2010, with Marc Bourreau and Carlo Cambini, *Communications & Strategies*, 78(2).
- [“Mixing Goods with Two-Part Tariffs.”](#) 2007, with Tommaso Valletti, *European Economic Review*, 51, 1733-1750. Previously CEPR Discussion Paper 5437 and Research Paper Series 72, Tor Vergata University, CEIS.
- [“On-Net and Off-Net Pricing On Asymmetric Telecommunications Networks.”](#) 2007, *Information Economics & Policy*, 19(2), pp. 171-188. Previously CEPR Discussion Paper 5588.
- [“Bertrand Games and Sharing Rules.”](#) 2007, *Economic Theory*, 31(3), pp. 573-585. Previously CEPR Discussion Paper 4972.
- [“Should Uniform Pricing be imposed on Entrants?.”](#) 2006, *Journal of Regulatory Economics*, 30(2), pp. 199-216. Previously CEPR Discussion Paper 5052.
- [“Asymmetry, Stability and Growth in a Step-by-step R&D-race.”](#) 2003, *European Economic Review*, 47(2), pp. 245-257.
- [“Existence and Comparative Statics in Differentiated Cournot Oligopolies.”](#) 2003, *International Journal of Industrial Organization*, 21(7), pp. 989-1019.
- [“Universal Service and Entry: The role of uniform pricing and coverage constraints.”](#) 2002, with Pedro P. Barros and Tommaso M. Valletti, *Journal of Regulatory Economics*, 21(2), 169-190. Previously CEPR Discussion Paper 2789.
- “The Interplay between Regulation and Competition: The Case of Universal Service Obligations,” 2002, with Tommaso Valletti, *Ifo-Studien*, 48(1), 57-71.
- [“Mixed Bertrand Equilibria under Decreasing Returns to Scale: An Embarrassment of Riches.”](#) 2002, *Economics Letters*, 74, 359-362.

Bourreau and Carlo Cambini, June 2015, Nova SBE WP 594.

[“Three equivalent Salop models and their normative representative consumer.”](#) July 2015, Nova SBE WP 593.

[“Fixed-Mobile Substitution and Termination Rates,”](#) July 2014, with Carlo Cambini and Marc Bourreau, Nova SBE WP 588.

[“The Strength of the Waterbed Effect Depends on Tariff Type,”](#) May 2014, Nova SBE WP 586.

[“Going beyond Duopoly: Connectivity Breakdowns under Receiving Party Pays,”](#) March 2014, Nova SBE WP 585.

[“Cooperative Investment, Uncertainty and Access”](#), March 2013, with Marc Bourreau and Carlo Cambini, CEPR Discussion Paper 9376.

[“Fixed-Mobile Integration”](#), February 2013, with Marc Bourreau and Carlo Cambini, CEPR Discussion Paper 9361.

[“The Ambivalence of Two-Part Tariffs for Bottleneck Access”](#), October 2012, with Ingo Vogelsang, Nova SBE WP 568.

[“Welfare Analysis of Regulating Mobile Termination Rates in the UK with an Application to the Orange T-Mobile Merger”](#), October 2012, with David Harbord, Nova SBE WP 571.

[“The Breakdown of Connectivity Breakdowns”](#), October 2012, CEPR Discussion Paper 9189.

[“Geographic Access Rules and Investments”](#), June 2012, with Marc Bourreau and Carlo Cambini, CEPR Discussion Paper 9013.

[“Asymmetric Broadband Wholesale Regulation”](#), May 2011, CEPR Discussion Paper 8399.

[“Calling clubs: Network Competition with Non-Uniform Calling Patterns”](#), September 2010 (with Roman Inderst and Tommaso Valletti), CEPR Discussion Paper 8114.

[“Competition between multiple asymmetric networks: Theory and applications”](#), October 2010, CEPR Discussion Paper 8060.

[“Welfare Analysis of Regulating Mobile Termination Rates in the UK \(with an Application to the Orange/T-Mobile Merger\).”](#) 2010, with David Harbord, CEPR Discussion Paper 7730.

[“When Two-Part Tariffs are not enough: Mixing with Nonlinear Pricing.”](#) 2010, with Tommaso Valletti, CEPR DP 7720.

[“Market Penetration and Late Entry in Mobile Telephony,”](#) October 2008, NET Institute Working Paper No. 08-38.

[“Tariff-Mediated Network Externalities: Is Regulatory Intervention Any Good?”](#) June 2008, CEPR Discussion Paper 6866.

[“Keeping Both Eyes Wide Open: The Life of a Competition Authority Among Sectoral Regulators.”](#) June 2008, with Pedro Pita

Barros and Tore Nilssen, CEPR Discussion Paper 6861.

[“The Race for Telecoms Infrastructure Investment with Bypass: Can Access Regulation Achieve the First-best?”](#) 2007, with João Vareda, CEPR Discussion Paper 6203.

[“On the Community Patent.”](#) January 2005, CEPR Discussion Paper 4883.

[“Sectoral Regulators and the Competition Authority: Which Relationship is Best?”](#), August 2004, with Pedro Pita Barros. CEPR Discussion Paper 4541.

[“Dynamic R&D-Competition with Endogenous Innovation Targets and Leapfrogging.”](#) FEUNL Working paper 370, 1999

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**Chapters in books  
and other  
publications**

“The Ambivalence of Two-Part Tariffs for Bottleneck Access”, with Ingo Vogelsang, 2013, in Dewenter, Haucap, Kehder (eds), Wettbewerb und Regulierung in Medien, Politik und Märkten, Nomos.

[“Efectos de la Reducción de Tarifas de Terminación Móvil sobre el Bienestar en el Mercado de las Telecomunicaciones de México”](#), November 2012, with David Harbord, Trimestre Economico, vol. LXXX (3), núm. 319 (Mexico), 2013.

"Mobile Telephony", with Tommaso Valletti, Oxford Handbook of the Digital Economy (ed. M. Peitz, J. Waldfoegel), 2012.

“The relationship between sectoral regulators and the competition authority”, 2005, with Pedro Pita Barros, in Bongardt, Annette, *Competition Policy in the European Union*, Experie, Lisboa, INA, Instituto Nacional de Administração

“The Interplay between Regulation and Competition: The Case of Universal Service Obligations”, 2003, with Tommaso Valletti. In Spectrum Auctions and Competition in Telecommunications, ed. Gerhard Illing and Ulrich Klüh, MIT Press.

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**Referee for scientific  
journals**

Análise Social, Annals of Economics and Statistics, B.E. Journal of Economic Analysis and Policy, B.E. Journal of Theoretical Economics, Bulletin of Economic Research, Canadian Journal of Economics, China Economic Review, Economica, Economic Inquiry, Economic Journal, Economic Theory, Empirical Economics, European Economic Review, Games and Economic Behavior, Information Economics & Policy, International Economic Review, International Journal of Industrial Organization, Journal of Economic Theory, Journal of Economics, Journal of Economics & Management Strategy, Journal of Industrial Economics, Journal of Public Economics, Journal of Regulatory Economics, Managerial and

Decision Economics, Manchester School, Manufacturing & Service Operations Management, Netnomics, Network and Spatial Economics, Notas Económicas, Oxford Economic Papers, Portuguese Economic Journal, RAND Journal of Economics, Review of Economic Studies, Review of Law and Economics, Review of Network Economics, Scandinavian Journal of Economics, Southern Economic Journal, Telecommunications Policy, Theoretical Economics, Utility Policy.

## **Organization of Conferences**

Head of local organization, EARIE 2016, Lisboa.

Florence School of Regulation, Communications and Media: Scientific Conferences 2015, 2014, 2013, 2011.

Member of Scientific Committee of the following conferences: EARIE 2014, 2013, 2012, 2011, 2006, 2005; “ICT & Economic Growth”, Munich, November 2010; ITS Istanbul 2007; 4<sup>th</sup> Annual Conference of PEJ; ASSET 2006, Lisbon.

Organizer of Summer School “Market Failures and Regulation in the Telecommunications Industry”, Algarve, September 2009

Local Organizer of 8th Annual SPiE Conference, FEUNL, June 2003.

Organizer of Summer School on Antitrust and Regulation at FEUNL, June 2002.

Co-organizer of “Encontro Nacional de Economia Industrial”, FEUNL, January 2002.

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## **Invited talks**

Keynote speech on Regulation and Investment, 24th European Regional Conference of the International Telecommunications Society, Florence, Italy, 20 - 23 October 2013.

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## **Presentations at conferences**

### 2014

Conference on the Economics of Information and Communication Technologies, Telecom Paris Tech, January, “Fixed-mobile Substitution and Termination Rates”

EARIE, Milan, August

### 2013

4<sup>th</sup> Workshop “Economics of ICTs”, Universidade de Évora, “Fixed-mobile integration”

### 2012

Xmas Meeting of German Economists Abroad, Köln, December, “Why Mobile Networks Prefer High Termination Rates: An Exploration of Strategic Delegation”

Conference on the Economics of Information and Communication Technologies, Telecom Paris Tech, October, “Why Mobile Networks Prefer High Termination Rates: An Exploration of Strategic



Delegation”

EARIE, Rome, September, “Asymmetric Broadband Wholesale Regulation”

CRRI Eastern Conference, Shawnee, May. “Asymmetric Broadband Wholesale Regulation”

2011

2<sup>nd</sup> Workshop “Economics of ICTs”, Universidade de Évora, “UK Welfare”

2010

Workshop on “Competition with nonlinear pricing and loyalty discounts”, University of Bologna, October (invited), “Nonlinear Mixing”

Conference “Quantitative Analysis in Competition Assessments”, ZEW, Mannheim, October. (UK Welfare)

EARIE 2010, Istanbul, September. (UK Welfare)

4th Annual Conference of the Portuguese Economic Journal, Faro, June, “Calling Circles”.

1<sup>st</sup> Workshop “Economics of ICTs”, Universidade do Porto, March, “Multiple networks”

2009

EEA (Barcelona) and EARIE (Ljubjana): papers accepted but unable to attend for personal reasons

COST IS0605: Second Meeting of Working Group 3 Policy and Regulation (Contribution to the Swedish Presidency Preparation for an EU ICT Policy toward 2015), Stockholm, October: “Your Fibre or My Fibre? Joint Investment in New Generation Access Networks”

7th ZEW Conference: The Economics of Information and Communication Technologies, Mannheim, July, “Competition between Multiple Asymmetric Networks: a Toolkit and Applications”

Workshop on Telecommunications Economics, COST Action IS0605 Econ@Tel, Working Group 3 (“Regulation and Public Policies”) Meeting, Telecom ParisTech, Paris, April: “Competition between Multiple Asymmetric Networks: a Toolkit and Applications”

2008

5. Weihnachtstreffen deutscher Wirtschaftswissenschaftler im Ausland, Bonn, Germany, “Tariff-Mediated Network Externalities: Is Regulatory Intervention Any Good?”

ACE 2008 Annual Conference, Budapest, Hungary: Roundtable on the PT/Sonaecom merger

ITS 19th European Regional Conference, Rome, Italy: “Tariff-Mediated Network Externalities: Is Regulatory Intervention Any Good?”

35th EARIE Conference, Toulouse, France: “Tariff-Mediated

Network Externalities: Is Regulatory Intervention Any Good?”  
2nd Annual Conference of the Portuguese Economic Journal, Évora:  
“Tariff-Mediated Network Externalities: Is Regulatory Intervention  
Any Good?”

#### 2007

ASSET, Padova, Italy: “Keeping both eyes wide open: A Multi-  
Tasking Approach to Competition-Authority Attention”

1st Annual Conference of the Portuguese Economic Journal, Ponta  
Delgada: “The Race of Telecoms Infrastructure Investment with  
Bypass: Can Access Regulation Achieve the First Best?”

ITS 18th European Regional Conference, Istanbul, Turkey: “The  
Race of Telecoms Infrastructure Investment with Bypass: Can Access  
Regulation Achieve the First Best?”

34th EARIE Conference, Valencia, Spain: “The Race of Telecoms  
Infrastructure Investment with Bypass: Can Access Regulation  
Achieve the First Best?”

#### 2006

“Conferência sobre Telecomunicações”, Universidade Lusófona,  
Lisbon, “On-net and off-net pricing on asymmetric  
telecommunications networks”

7th CEPR conference in Applied IO, Funchal: “Mixing media with  
two-part tariffs”

ESEM, Vienna: “On-net and off-net pricing on asymmetric  
telecommunications networks”

EEA, Vienna: “Mixing media with two-part tariffs”

ASSET, Lisbon: “On-net and off-net pricing on asymmetric  
telecommunications networks”

#### 2005

EARIE, Porto: “Bertrand Equilibria and Sharing Rules”

ITS, Porto: “On-net and off-net pricing on asymmetric  
telecommunications networks”

EUI Competition Day: “Services of General Economic Interest”

#### 2004

IIª Conferência “Desenvolvimento Económico Português no Espaço  
Europeu” of the Portuguese Central Bank, March 11th and 12th,  
Lisbon: “Sectoral Regulators and the Competition Authority: Which  
Relationship is best?”, with Pedro Pita Barros

EARIE, Berlin: “On the Community Patent”

#### 2003

EARIE, Helsinki: “Word-by-Mouth Diffusion and Entry”

SPiE, Lisbon: “On the Community Patent”

3rd ZEW Conference on the Economics of Information and Information Technologies, Mannheim: “Word-by-Mouth Diffusion and Entry”

#### 2002

ESEM, Venice: “Bertrand Equilibrium and Sharing Rules”

SPiE, Aveiro: “Collusion and Confusion”

#### 2001

EARIE, Dublin: “Universal Service Obligations: Should they be imposed on entrants?”

1st ZEW Conference on the Economics of Information and Information Technologies, Mannheim

CEPR/TMR-conference “Evolution of Market Structure in Network Industries”, Lisbon

Jornadas de Economia Industrial, Barcelona

CESifo Venice Summer Institute

Jornadas da Economia Industrial, Leiria

#### 2000

EARIE, Lausanne

ITS (International Telecommunications Society), Lausanne

EEA, Bolzano

CEPR/TMR-conference “Evolution of Market Structure in Network Industries”, Heidelberg

IV Jornadas sobre Economía de las Telecomunicaciones, Complutense, Madrid

#### 1999

EARIE, Turino

ESEM, Santiago de Compostela

Jornadas de Economia Industrial, Madrid

Jahrestagung des Vereins für Socialpolitik, Mainz

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#### **Seminars**

Universidade do Porto, Janeiro 2012

University of Copenhagen, May 2011

Autoridade da Concorrência, January 2011

ICP-ANACOM, Lisbon, January 2009

Telecom-ParisTech ENST, Paris, January 2009

Autoridade da Concorrência, Lisbon, July 2008

IST, CMU Seminar Series on ICT, Lisbon, March 2008

“Lisbon Seminar”, FEUNL/ICS, Lisbon, March 2008  
ISEG, Lisbon, February 2008  
University of Tromsø, Norway, December 2007  
University of Oslo, Norway, November 2007  
Norwegian School of Management, Oslo, Norway, November 2007  
ICP-ANACOM, Lisbon, May 2007  
Universidade de Évora, March 2007  
Autoridade da Concorrência, Lisbon, May 2006  
Università Ca’ Foscari, Venezia, May 2005  
FEUNL (SATPEG), October 2004  
FEUNL (IRW), December 2003  
FEUNL(SATPEG), 2001/2  
Universidade do Minho, November 2001  
Universität Mannheim, June 2001  
Universidade Católica Portuguesa, Lisbon, October 2000  
INSEAD, Fontainebleau, Mai 2000

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**Non-academic  
publications**

“O mercado das telecomunicações em Portugal”, *Jornal de Negócios*, 10/11/2005.  
“A relação entre os Reguladores Sectoriais e a Autoridade da Concorrência”, *Jornal de Negócios*, 2/6/2005.  
“A Maioria Qualificada na União Europeia: Comparação entre o Tratado de Nice e a Proposta da Constituição“, *Economia Pura* (Janeiro 2004)

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**Services to the  
community and  
connections to  
business world**

Research project reviewer for Swiss National Science Foundation (2014)  
Member of “Comissão de Acompanhamento da Reforma do Sector Audiovisual” at the Ministério Adjunto e do Desenvolvimento Regional, October 2013 – (*Diário da República*, 2.ª série, N.º 208, 28 de Outubro de 2013, Despacho n.º 13681/2013)  
Economic Consultant for European Commission: participation in study for Revision of Regulatory Framework for Telecommunications, 2013; participation in “Support for the preparation of an impact assessment to accompany the Commission’s review of the Roaming Regulation”, 2011  
Economic Consultant for companies and regulators in Belgium, Colombia, Ireland, Mexico, Netherlands, New Zealand, Portugal, UK.

Juri member of competition for regional high-speed broadband investments in Portugal, 2009-2010 (Ministério das Obras Públicas e Transportes)

Economic Consultant for ICP-Anacom, 2004-2006

Member of jury for doctoral grants in companies by Fundação de Ciência e Tecnologia (FCT), January 2007

Member of jury for research grants (post-doc, doctoral, masters) by Fundação de Ciência e Tecnologia (FCT), May 2006

Member of jury for admission exam in “General knowledge” at Centro de Estudos Judiciários, 2001

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**Hobbies**

Piano, Cycling, Sailing (still on hold for lack of boat, though)