

## CLAUDIO BRAVO-ORTEGA

### CONTACT INFORMATION

Address: Business School  
Universidad Adolfo Ibañez  
Diagonal Las Torres 2640, Edificio C.  
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<http://www.uai.cl/facultades/escuela-de-negocios/profesores/claudio-bravo>

Nationality: Chilean

### MAIN FIELDS OF RESEARCH.

*Economics of Innovation and Growth, International Economics, Development Economics, Political Economy.*

### PRE AND GRADUATE STUDIES DEGREE DATE FIELD

UC at Berkeley	Ph.D.	2003	Economics
Universidad de Chile	M.Sc.	1998	Industrial Engineering (Max. Distinctions)
Universidad de Chile	Engineering	1998	Industrial (Max. Distinctions)
Universidad de Chile	B.Sc.	1996	Engineering Sciences (Distinction).

### PROFESSIONAL EXPERIENCE.

*December 2017-up to date. Head of the Innovation, Entrepreneurship and Sustainability Group, School of Business, Universidad Adolfo Ibañez.*

*December 2017-up to date. Director M.A. in Innovation, School of Business, Universidad Adolfo Ibañez.*

*December 2017-up to date. Director Certificate on Strategic Innovation Management, School of Business, Universidad Adolfo Ibañez*

*July 2017 - up to date. Member of the Directory of the Business Development Center, Las Condes, Chile.*

*April 2017 - up to date. Member of the Impact Assessment Advisory Council from BancoEstado, Chile.*

*December 2015 – June 2017. Member of the Directory of the Business Development Center, San Bernardo, Chile.*

*July 2014 – November 2017. Director of the School of Economics and Management, School of Business and Economics, Universidad de Chile.*

*Among my responsibilities as Director I can mention at least:*

- *Strategic Planning*

- *Academic Curriculum Management*
- *National Accreditation and Delivery of Inputs for International Accreditation*
- *Professors Hiring*
- *Annual Budget Plan and Monitoring*
- *Institutional Relationship with Student Organizations*
- *Supervision of units (with Director ESIA): Sports, Diversity, Welfare, Social Responsibility, Students Placement, International Relations, Student Affairs, Marketing and Information Dissemination, Teaching and Learning Center, Quality Assurance and Accreditation, Division of Internal Management and Finance, Information Technologies Support, Communications and Design.*

*Additionally, I still do some research and teaching.*

*May 2014-up to date. **Associate Professor**, Department of Economics, Universidad de Chile.*

*January 2014-up to date. **Associate Editor Ecos de Economía**, EAFIT, Colombia. (<http://publicaciones.eafit.edu.co/index.php/ecos-economia/about/editorialTeam>)*

*March 2014-July 2014. **Academic Director from the M.Sc. in Economic Analysis**. Universidad de Chile.*

*January 2005- up to date. **Editorial Board Estudios de Economía, Universidad de Chile** (as Professor Department of Economics (<http://estudiosdeeconomia.uchile.cl/>)).*

*January 2005- May 2014. **Assistant Professor**, Department of Economics, Universidad de Chile*

*September 2008 September 2009. **Visiting Fellow**, Science and Technology Policy Research (SPRU), University of Sussex.*

*October 2008- September 2009. **Visiting Scholar**, Department of Economics, University College of London,*

*June 2003- December 2004. **Researcher and Consultant**, World Bank, Chief Economist Office for Latin America and the Caribbean region. Research Topics: International Economics, Development and Innovation. Based in Washington DC-USA and Santiago- Chile.*

*Summer 2002. **Summer Internship**, World Bank, Chief Economist Office for Latin America and the Caribbean region. Research Topic: Wages, Trade and Geography in Brazil. (Supervisor Daniel Lederman),*

*Summer 2000. **Summer Internship**, Chilean Government. Advisor of the Minister of Economics, Mining and Energy, Mr. Jose De Gregorio. Topic: Modeling the impact of Natural Resources on Economic Growth and Human Capital Accumulation,*

*1998 – June 1999. **Researcher**, Center for Applied Economics at the Universidad de Chile.*

*1996 –1997. **Research Assistant**, CIEPLAN (Corp. de Investigación Económica para Latinoamérica).*

## **TEACHING**

*Professor undergraduate Macroeconomics IV, Universidad de Chile, Spring 17.*

*Professor undergraduate Macroeconomics III, Universidad de Chile, Fall and Spring 2015-16, Fall 2017.*

*Professor Master degree in Public Policy, course on Theoretical Aspects of Innovation, 2011-2015 Summer.*

*Professor Master and Ph.D. course on Trade, Innovation and Growth (with Roberto Alvarez, CBCh), Universidad de Chile, Spring 2007-2008, 2010-2011.*

*Professor Master and Ph.D. course on Macroeconomic Theory II, Universidad de Chile, Spring 2005-2006.*

*Professor of undergraduate International Trade Theory, Universidad de Chile, Fall and Spring 2005-2008, 2010-2014.*

*Professor of Macroeconomics, MBA Universidad de Chile, 2005.*

*Teacher Assistant of Macroeconomics, Department of Economics, UC at Berkeley, Fall 2002.*

*Teacher Assistant of Public Finance, Department of Economics, UC at Berkeley, Spring 2002.*

*All the remaining teaching experience at the Universidad de Chile, either on the School of Engineering or the School of Business and Management.*

*Teacher Assistant for: Introduction to Economics, Economics and Public Policy II (Graduate Level), Microeconomics II (Graduate Level), Economic Policy, Algebra I*

## **PUBLICATIONS.**

2017 “A Toolkit for R&D Policy Choice with an Application to Chilean Mining.” **International Journal of Technological Learning, Innovation and Development**. Also published as *Knowledge Intensive Mining Services in Chile: Challenges and Opportunities for Future Development*. Inter American Development Bank Working Paper IDB-BP 418. With Leonardo Muñoz.

2017 “What do women want? Female suffrage and the size of government,” **Forthcoming Economic Systems**. Also Working Paper Vol. 386 · pp. 1 – 38, Department of Economics. With Paredes, Valentina and Nicolas A. Eterovic.

2016 “Collaboration in Clusters and Technology Consortia: The Case of Chile” J. M. Benavente, C Bravo-Ortega, D. Goya, and A. Zahler in *TWO TO TANGO. Public-Private Collaboration for Productive Development Policies*. E. Fernández-Arias, C. Sabel, E. Stein and A. Trejos editors. **Inter American Development Bank, Washington, DC**.

2016 “Product Mix Changes and Performance in Chilean Plants.” (with Roberto Álvarez and Lucas Navarro. **Industrial and Corporate Change**, 25(6):1001-1017. Also Working Paper N 366 · pp. 1 - 36, Department of Economics, Universidad de Chile.

2015. "Innovation in the Services Sector," D. Aboal & C. Bravo-Ortega & G. Crespi, **Emerging Markets Finance and Trade**, vol. 51(3), pages 537-539, May.

2015 “Innovation and Productivity in Services: Evidence from Chile” (with Roberto Alvarez and Andres Zahler). **Emerging Markets Finance and Trade**, 51:593–611. Also Working Paper N 384 · pp. 1 – 52, Department of Economics, Universidad de Chile.

2014 “Innovation, Exports and Productivity: Learning and Self selection in Chile” (with Benavente, Jose Miguel; González, Álvaro) **Emerging Markets Finance and Trade** 50(1), January-February. Also Working Paper N 371, Department of Economics, Universidad de Chile.

2012 “Exploring the interaction between Intellectual Property Rights, Human Capital and R&D Expenditures: Are there implications for developing countries?” **International Journal of Technology Learning, Innovation and Development**. Vol. 5, No. 3. Previously as “Intellectual Property Rights, Human Capital and the Incidence Of R&D Expenditures” (with Daniel Lederman). Working Paper N° 277, Department of Economics, Universidad de Chile. World Bank Policy Research working paper, WPS 5217.

2012 “Determinants of Export Diversification around the World: 1962-2000” (with Manuel Agosin and Roberto Alvarez). **The World Economy** 35(3), March. Also as Working Paper N° 309, Department of Economics, Universidad de Chile.

2012 “The Emergence and Consolidation of the Chilean Wine Industry” in *Export Pioneers in Latin America*, Sabel, Fernandez-Arias, Hausman, Rodriguez-Clare and Stein eds, David Rockefeller Center for Latin American Studies, IADB published by **Harvard University Press**.

2011 *Productivity and Innovation: The Chilean case*. (with Roberto Alvarez and Lucas Navarro). **CEPAL Review** 104:135-160..

2011 “R&D and Productivity. A two way Avenue?” **World Development**. 39(7):1090-1107 Also as “Exploring the Relationship between R&D and Productivity: A Country-Level Study” (with Alvaro García Working Paper N° 282, Department of Economics, Universidad de Chile.

2009 *Agriculture and National Welfare Around the World: Causality and International Heterogeneity since 1960* (with Daniel Lederman). **Trimestre Económico**.78(3). (World Bank working paper 3499, February 2005)

2007 “Trade Liberalization in Chile: A historical Perspective.” In *FTA and Structural Changes: Experiences and Implications*. Edited by MoonJoong Tcha. **Korean Development Institute**, Seoul Korea.

2006 *Remoteness and Real Exchange Rate Volatility* (with Julian di Giovanni) **IMF Staff Papers**, September. (IMF working paper 05/01, January 2005)

2006, “The Relative Richness of the Poor? Natural Resources, Human Capital and Economic Growth.” in *Neither Curse Nor Destiny: Natural Resources and Development*. Edited by Daniel Lederman and William F. Maloney. **Stanford University Press**.(with Jose De Gregorio). (World Bank working paper 3484, January 2005).

2005 *Agricultural Productivity and its Determinants: Revisiting International Experiences* (With Daniel Lederman). **Estudios de Economía** 31(2):133-163.

2005 "Macroeconomic Dimensions of Integration and Trade: A comment," in *Issues Papers Second Annual Conference, Euro-Latin Study Network on Integration and Trade*. Published by **INTAL, ITD, and SOE of the Inter American Development Bank**.

2004 "Multinationals and Linkages. An Empirical Investigation: A comment," in *Economía, LACEA and Brookings Institution eds., Spring, volume 4 number 2*.

April, July, October 1997, and January, April, July, October 1998. *Informe sobre la Coyuntura Económica Chilena. Revista Situación Latinoamericana*. Cedeal, Spain. (With different coauthors in different opportunities: Jaime Hurtubia, Pablo Cabezas, Patricio Meller).

#### **WORKING PAPERS NOT PUBLISHED YET OR IN PUBLICATION PROCESS.**

2017 "Knowledge Intensive Mining Services in Chile: A Regional Approach for their Development." Working Paper No. 448, pp. 1 – 45, Department of Economics, Universidad de Chile. With Leonardo Muñoz. **Submitted to Resources Policy**.

2016. "Faraway or nearby? domestic and international spillovers in patenting and product innovation," Policy Research Working Paper Series 7828, The World Bank. With Ana Cusolito and Daniel Lederman. **About to Submit to Journal of Development Studies**.

2016 "Female-male participation in the Parliament. Are we ever going to converge to Scandinavia?" Working Paper No. 419, pp. 1 - 34, Department of Economics, Universidad de Chile. With Paredes, Valentina and Nicolas A. Eterovic. **Submitted to Feminist Economics**

2015. "Empirical Evidence on R&D Targeting and Transitions," Working Papers 402, Department of Economics, University of Chile. With Roberto Alvarez and Dan Poniachik. **About to submit to Science and Public Policy**.

2015. "A Historical Perspective of a Hundred Years of Industrialization. From Vertical to Horizontal Policies in Chile," Working Papers wp399, Department of Economics, University of Chile. With Nicolas Eterovic.

2014. "Public-Private Collaboration on Productive Development in Chile," IDB Publications (Working Papers) 85078, Inter-American Development Bank. With Andrés Zahler, Daniel Goya and José Miguel Benavente.

2013. "The Emerging Opportunities for Innovation in Natural Resource-based Industries in Latin America: Only Potential or Being Realised?". *Technological Learning and Industrial Innovation Working Paper Series*, v. 1, p. 1-20. With Dantas, Eva ; Marin, Anabel ; Paulo N Figueiredo .

2009 "Do Multilateral Trade Linkages Explain Bilateral Real Exchange Rate Volatility?" Working Paper N° 304, Department of Economics, Universidad de Chile.

2009 "The Emergence of New Successful Export Activities in Latin America: The Case of Chile." *Latin American Research Network Working Paper R-552*, Inter-American Development Bank. Also published as Working Paper N° 236, Department of Economics, Universidad de Chile, May 2007. (with Manuel Agosin).

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2007” *Cerrando la brecha innovativa latinoamericana: ¿Qué podemos aprender de Corea, Israel y Finlandia?*” *Serie Estudios Socio Económicos N°35*, CIEPLAN, Santiago, Chile.

2005 *Does Asymmetric Information Cause the Home Equity Bias?*. World Bank working paper 3495.

2005 *Trade Costs and Real Exchange Rate Volatility: The Role of Ricardian Comparative Advantage (with Julian di Giovanni)* IMF working paper No. 05/5r.

1998, “*Análisis Historiográfico de la Literatura Económica Chilena*”, coauthor Patricio Meller. *Documentos de Trabajo, Serie Economía. Centro de Economía Aplicada, Departamento de Ingeniería Industrial, Universidad de Chile.*

1998, “*Análisis Descriptivo del Tamaño Relativo del Gasto de Gobierno*”, coauthors: Eduardo Engel y Patricio Meller. *Documentos de Trabajo, Serie Economía. Centro de Economía Aplicada, Departamento de Ingeniería Industrial, Universidad de Chile.*

## **WORK IN PROGRESS**

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1.- “*Worker, Seller, Manager, Driver: Experimental Evidence on What Training Can Do for Small Entrepreneurs.*” With Claudia Martinez and Tomas Rau

2.- “*Do women in parliament shape public expenditure composition.*” With Nicolas Eterovic and Valentina Paredes.

3.- “*Intellectual Property Development Strategies in Mining Companies and their Suppliers.*” With Juan J. Price.

## **RESEARCH & CONSULTING**

2017 “*Mining industries: Global challenges for Innovation and Intellectual Property*” Consultancy (in progress) commissioned by the World Intellectual Property Organization (WIPO) (With Juan J. Price).

2016 “*Building Research Data Centers in Chile: The use of publicly generated information to stimulate high quality research on innovation, productivity and economic development*” National Council for Innovation (Under Secretariat of Economics, Chile) (with A. Farren, H. Herrera and Juan J. Price).

2014-2015. Consultant Inter American Development Bank. Topic. *Innovation in Services in Chilean Mining.*

2012-2013. Consultant Inter American Development Bank. Topic. *Innovation in Services in Chile.*

2011-2012. Consultant Inter American Development. Topic. *Public-Private Partnerships in Chile.*

May 2009-2012. Consultant World Bank. Topic: *Worldwide Knowledge Spillovers; and Industrialization Policies in Chile.*

June 2009-2012. Consultant IDRC. Topic : *Innovation in Natural Resources Industries.*

November 2008-June 2009. Consultant IADB. Topic: *Innovation, R&D Investment And Productivity In Latin American & Caribbean: The Chilean Case.*

June 2007-November 2007. Consultant World Bank. Topic: *Governance in the Chilean NIS.*

Spring 2006. Consultant Korean Development Institute. Topic: *Free Trade Liberalization in Chile.*

March 2006-March 2007. Consultant, Inter American Development Bank. Topic: *The Emergence of New Successful Export Activities in Latin America: The Case of Chile. (Sectors Studied: Wine, Blueberries, Pork)*

March 2005-March 2006. Consultant, Pro-Chile (Export Promotion Agency), Ministry of Foreign Affairs. Topic: *Estimation of Direct and Indirect Employment in Exporting Sectors. (Sectors: Wine, Salmon, Pulp).*

## **FELLOWSHIPS , AWARDS AND GRANTS.**

2013-2015 **Fondecyt** Grant Number 1130575 (Chile). Topic of research: *Women and Politics*

2012 **Best Economics Paper Award**, School of Business and Economics, Universidad de Chile.

2011-2015 **FONDEF** grant D10I1011, for the project “Entrepreneurial Competence Training and its Experimental Evaluation” (joint with MIDE UC and INACAP)

2011-2013 Grant **Nucleo Milenio Intelis** for the development of a research agenda on innovation and growth (with Jose Miguel Benavente, Roberto Alvarez, Andres Zahler and others).

2009-2011 **Economic and Social Research Council** Grant RES-810-21-0075 (UK). Topic: *Developing An Unique Multi Country Network and Database to Identify the Impact of Multinationals on Innovation in Host Countries. (with Anabel Marin and Roger Smeets).*

2008-2010 **Fondecyt** Grant Number 10850277 (Chile). Topic of research: *Heterogeneity in the Returns to R&D (joint with Jose Miguel Benavente).*

2008-2010 **Fondecyt** Grant Number 1085014 (Chile). Topic of research: *Export Diversification and Economic Growth (joint with Manuel Agosin and Roberto Alvarez).*

2006-2007 **Fondecyt** Grant Number 1061137 (Chile). Topic of research: *Institutions, Imitation and R&D.*

2006 **Best Economics Professor Award**, Department of Economics, Universidad de Chile (undergraduate level, Spring).

2003 Dean’s Normative Time Fellowship, **UC Berkeley**.

1999-2001, **Fulbright** Commission Fellowship.

1999-2002, **President of the Republic of Chile**, Fellowship.

1990-1997, Academic Excellence Fellowship given by **CMD (Exxon)**.

## **MAIN SEMINAR PRESENTATIONS AND CONFERENCES.**

November 2013 IADB Regional Policy Dialogue: *The Caribbean*. Note Speaker.  
July 2013 IADB Regional Policy Dialogue: *Latin America*. Note Speaker.  
May 2013, *Eighth Knowledge Globalization Conference*, Istanbul, Turkey.  
November 2011, *Latin American Economic Association, Annual Meeting*, Santiago Chile.  
November 2010, *accepted but didn't attend to Latin American Economic Association, Annual Meeting*, Medellin, Colombia.  
October 2008. *3rd Annual Conference of the EPIP Association*, Bern, Switzerland.  
September 2006. *Korean Development Institute International Conference "NAFTA and Structural Changes: Experiences and Implications."* Seoul, Korea.  
October 2005, *Euro-Latin Study Network on Integration and Trade*. Kiel, Germany.  
June 2005. *R&D and Innovation in the Development Process. A New Look at Theory, Evidence and Policies* Barcelona, Spain.  
July 2004. *Econometrica, Latin American chapter*.  
October 2003. *Latin American Economic Association, Annual Meeting*.  
January 2002, *International Conference on Natural Resources and Growth*, Banco Central de Chile and World Bank.

*Seminars and workshops presented at: University of Sussex, UC Berkeley, World Bank DC, IADB DC, FGV Rio de Janeiro, Departamento de Ingenieria Industrial y Departamento de Economía Universidad de Chile, Pontificia Universidad Católica de Chile, Universidad Alberto Hurtado among others.*

#### **OTHER PROFESSIONAL ACTIVITIES AND COURSES.**

*2016-2015-2006 Member of the Long Term GDP Growth Forecast Committee, Ministry of Finance, Chile.*

*2013-2015 Member of the Central Committee of Industrial Property, Universidad de Chile.*

*2008-2009 Member of the Curricular Reform Committee, School of Business and Economics, Universidad de Chile.*

*Referee for: Journal of Economic Growth, Review of World Economics, World Development, Research Policy, Resource Policy, Environment and Development Economics, Journal of Applied Economics, Emerging Markets Finance and Trade, Economía Chilena, Cuadernos de Economía, Estudios de Economía, Oxford University Press.*

*Experimental Design Course. J-Pal Latin America. MIT and PUC Chile. December 2009.*

#### **FORMER STUDENTS, T.A.'s, R.A's AND JUNIOR COAUTHORS STUDYING (Studied) ABROAD.**

*Tatiana Reyes (Berkeley)*  
*Marco Rojas (Michigan)*  
*Camila Cea (London School of Economics)*  
*Bejamin Leiva (Georgia)*  
*Cristian Araya (London Business School)*



*Rolando Campusano (Toronto)*  
*Ruben Poblete (UCL)*  
*Maikol Cerda (NYU)*  
*Pablo Egaña (Columbia University).*  
*Nicolas Eterovic (Essex).*  
*Alvaro Gonzalez (Columbia)*  
*Conrado Cuevas (Warwick)*  
*Alvaro Garcia (UCLA).*  
*Jorge Lorca (Minnesota).*  
*Valentina Paredes (Berkeley).*

#### **MASTER, AND PHD DISSERTATIONS ADVISED.**

*Heinz Dobel: Horizontal cooperation and its impact on competition.*  
*Jose Luis Nolazco. Topic: Natural Resources and Economic Growth.*  
*Cristián Araya. Topic: Innovation in Natural Resources Industries.*  
*Cristian Belmar. Topic: R&D Spillovers in Chile. (in progress)*  
*Alvaro Garcia. Topic R&D and Productivity.*  
*Alvaro Gonzalez. Topic: R&D; Exports and Productivity.*

#### **UNDERGRADUATE DISSERTATIONS.**

Marco Tamayo y Esteban Sanchez: Industrial Organization and Innovation.  
Rodrigo Cruz: Burbuja Inmobiliaria en Santiago.  
Sebastian Arechaga: Inequality and Productive Structure.  
Marco Escobar: Microinsurance.  
Dan Poniashick: R&D targeting.  
Ruben Poblete. Topic: Democratic Regimes and Inequality.  
Nicolas Eterovic. Topic: Economic Growth, Fiscal Expenditure and Women's Voting.  
Alvaro Gonzalez. Topic: R&D and Productivity in the Chilean Manufacturing Sector.  
Oscar Marguirot. Topic: Curricular Reform for Ingenieria Comercial.  
B. Lopez, D. Game, C. Cubilla, F. Marin, A. Muños y R.Leon. Topic: Quantifying the impact of Exports on Employment. Study of Specific Products.

#### **OTHER INFORMATION**

*Citizenship: Chilean*  
*Computer Skills: Word, Excel, Stata, Mathematica.*  
*Languages: Spanish (native), English, Portuguese (Basic Reading).*