CURRICULUM VITAE

JUAN-PABLO MONTERO

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Married to Paula Jaras; three children (Isabella, Vicente and Pedro); born in Chile on December 1966

FIELDS OF INTEREST

Applied microeconomics, industrial organization, environmental economics and resource economics.

EDUCATION

PhD in Industrial Economics, Massachusetts Institute of Technology (MIT), 1997

Master of Science in Economics, MIT, 1996

Master of Science in Technology and Public Policy, MIT, 1994

Master of Science in Hydraulic Engineering, Pontificia Universidad Católica de Chile (PUC Chile), 1991

Civil Engineering, PUC Chile, 1990

ACADEMIC/PROFESIONAL ACTIVITIES

2004-present	Associate Professor of Economics, Department of Economics, PUC Chile
1997-present	Research Associate, Center for Energy and Environmental Policy Research, MIT
2005-2006	Visiting Repsol YPF-KSG Scholar, Kennedy School of Government, Harvard
2002-2004	Assistant Professor of Economics, Department of Economics, PUC Chile
2001-2002	Visiting Professor of Applied Economics, Sloan School of Management, MIT
1997-2001	Assistant Professor of Industrial Economics, Dept. Industrial Engineering, PUC
	Chile
2000	Lecturer, Department of Economics, PUC Chile (second semester)
1994	Summer Internship, The World Bank
1991-1992	Lecturer, Department of Hydraulic Engineering, PUC Chile.

COURSES TAUGHT (U: undergraduate, G: graduate)

Microeconomic Theory I (G, PUC Chile), Microeconomic Theory II (G, PUC Chile), Environmental Economics (G, PUC Chile), Applied Econometrics (G, PUC Chile), Microeconomics (U, PUC Chile), Economics (U, PUC Chile), Economic Analysis for Business Decisions (G, MIT), Industrial Organization (G, PUC Chile), Industrial Organization (U, PUC Chile).

PROFESSIONAL SERVICES AND ASSOCIATIONS

Editorial Council, Journal of Environmental Economics and Management, 2009-present Editorial Board, Review of Environmental Economics and Policy, 2006-present Editorial Board, Environment and Development Economics, 2008-present

Editorial Board, Journal Economia, 2008-present.

Editorial Board, Journal of Applied Economics, 2001-present.

Editorial Board, International Review of Environmental and Resource Economics, 2006-present Co-Editor, Cuadernos de Economia, 2003-2008

Panel, Journal Economia, 2006-2007.

Editorial Board, International Yearbook of Environmental and Resource Economics, 2004-2005.

Editorial Board, Cuadernos de Economia, 2001-2003.

Member American Economic Association (AEA)

REFEERING

American Economic Review, Annals of Operations Research, The BE Journals in Economic Analysis and Policy, Contemporary Economics Policy, Ecological Economics, Econometrica, The Energy Journal, European Economic Review, International Economic Review, International Journal of Industrial Organization, International Tax and Public Finance, Journal of Applied Economics, Journal of Economic Theory, Journal of Environmental Economics and Management, Journal of Industrial Economics, Journal of Law Economics and Organization, Journal of Political Economy, Journal of Public Economics, Journal of Public Economics Theory, Journal of Regulatory Economics, Operations Research, Production and Operations Management, RAND Journal of Economics, Resources and Energy Economics, Resource and Environmental Economics, Review of Economic Studies, Cambridge University Press, Resources for the Future Press, Fondo Estudio Políticas Públicas U. Chile, Fondecyt-Chile, Perspectivas, Estudios de Economía, Ingeniería del Agua, Cuadernos de Economía.

SEMINAR PRESENTATIONS

USA: MIT, Harvard, Columbia, Yale, Stanford, UC Berkeley, Maryland University, Texas A&M University, Univ. Massachusetts-Amherst, UC Santa Barbara

Europe: Helsinki School of Economics, Catholic University of Louvain/CORE, University of Vigo, University College London, Toulouse School of Economics, University of Zaragoza, Center for Advanced Studies-Oslo, Universidad Carlos III, Università Bocconi.

Latin America: PUC Chile, University of Chile, University of Concepción, Universidad Alberto Hurtado (Chile), CEMA University (Buenos Aires), Universidad EAFIT (Medellín), Universidad de Montevideo.

Conferences: ASSA-AEA, Econometric Society Summer Meetings, EAERE Meetings, IO Society Meetings, LACEA, LAMES, World Bank-Global Development Network Annual Meetings.

OTHER PROFESIONAL ACTIVITIES

Consulting in topics of industrial organization, environmental and resource economics for agencies in the Government of Chile such as Ministry of the Economy, the National Commission for the Environment, the Ministry of Foreign Affairs, the Competition Authority (Fiscalia Nacional Económica); private corporations in Chile and international organizations such as the World Bank and the U.S. Environmental Protection Agency.

AWARDS/SCHOLARSHIPS/GRANTS		
2009-2011	Fondecyt-Chile Grant #109-5209 (principal investigator; topic: "On collusion")	
2008	Campbell Watkins Award for best paper published in The Energy Journal in 2007	
2008	Second Place in Research Medal Award of the Global Development Network	
	(sponsored by the World Bank) with the paper "A simple auction mechanism for	
	the optimal allocation of the commons"	
2007	Appointed as main investigator, Instituto Milenio, Complex Engineering Systems	
	(5 years appointment)	
2007-2008	Fondecyt-Chile Grant #107-0982 (principal investigator; topic: "Auctions for	
	protecting the commons")	
2007	Chilean Economist of the Year (awarded by El Mercurio —Chile's main	
	newspaper—based on a poll to 400 Chilean economists)	
2007	Public Policy Grant, awarded by PUC Chile and the Ministerio Secretaría General	
	de la Presidencia (Presidency General Secretariat Ministry)	
2005-2006	Repsol YPF-KSG Research Fellowship at Harvard's Kennedy School of	
	Government	
2005-2006	BBVA Foundation Grant/Award (co- investigator)	
2005-2006	Fondecyt-Chile Grant #105-1008 (principal investigator)	
2003	First Place in Research Medal Award of the Global Development Network	
	(sponsored by the World Bank) with the paper "Pollution markets with imperfectly	
	observed emissions"	
2003-2004	Fondecyt-Chile Grant #103-0961 (principal investigator)	
2000-2002	Fondecyt-Chile Grant #100- 0517 (co-investigator)	
1999-2001	Fondecyt-Chile Grant #199-0100 (principal investigator)	
1998-1999	Ford Foundation Grant for Studies in Public Policy (principal investigator)	
1997-1998	Fondecyt-Chile Grant #197-1291 (principal investigator)	
1995-1997	Presidente de la República de Chile Scholarship	
1993	National Award of the Chilean Hydraulic Engineering Society	
1992-1994	Fulbright Scholarship	
1992-1994	Enciclopedia Britannica Scholarship	

PUBLICATIONS

PUC Chile.

A. BOOKS

1990

Markets for Clean Air: The US Acid Rain Experience (with A.D. Ellerman, P. Joskow, R. Schmalensee, and E. M. Bailey), Cambridge University Press, Cambridge, UK (2000).

1990-1991 Shell Inc. Scholarship to the best graduate student in the School of Engineering,

Best student, Hydraulic Engineering Department, PUC Chile.

Emissions Trading under the US Acid Rain Program: Evaluation of Compliance Costs and Allowance Market Performance (with A.D. Ellerman, R. Schmalensee, P. Joskow, and E. M. Bailey), Center for Energy and Environmental Policy Research, MIT (1997).

B. JOURNAL ARTICLES AND BOOK CHAPTERS

Forward trading in exhaustible-resource oligopoly (with Matti Liski), invitation to revise and resubmit from the RAND Journal of Economics.

Market power in an exhaustible-resource market: The case of storable pollution permits (with Matti Liski), <u>The Economic Journal</u>, forthcoming.

Market power in pollution permit markets, The Energy Journal, forthcoming.

Output-expanding collusion in the presence of a competitive fringe (with Juan Ignacio Guzmán), Journal of Industrial Economics, forthcoming.

A simple auction mechanism for the optimal allocation of the commons, <u>American Economic Review</u> 98, 496-518 (2008).

The Efficiency and Robustness of Allowance Banking in the U.S. Acid Rain Program (with Denny Ellerman), <u>The Energy Journal</u> 28, 47-71 (2007).

[Distinguished with the Campbell Watkins Award for best paper in The Energy Journal in 2007]

An Auction Mechanism in a Climate Change Architecture. In R. Stavins and J. Aldy, eds., *Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World.* Cambridge University Press (2007).

Tradable Permits with Incomplete Monitoring: Evidence from Santiago's Particulate Permits Program. In J. Freeman and C. Kolstad, eds., *Moving to Markets in Environmental Regulation: Lessons from Twenty Years of Experience*. Oxford University Press (2007).

An auction mechanism for the commons: Some extensions, <u>Cuadernos de Economia</u> 44, 133-40 (2007)

Forward trading and collusion in oligopoly (with Matti Liski), <u>Journal of Economic Theory</u> 131, 212-230 (2006).

On pollution permit banking and market power (with Matti Liski), <u>Journal of Regulatory Economics</u> 29, 283-302 (2006).

Pollution markets with imperfectly observed emissions, <u>RAND Journal of Economics</u> 36, 645-660 (2005).

[Reprinted in *Economics of Environmental Law*, edited by Richard Brooks, Nathaniel O. Keohane, and Douglas A. Kysar, Edward Elgar, Cheltenham, UK, 2008]

A model of final-offer arbitration in regulation, <u>Journal of Regulatory Economics</u> 28, 23-46 (2005).

A note on market power in an emission permits market with banking (with Matti Liski), Environmental and Resource Economics 31, 159-173 (2005).

Notas para una regulación eficiente de la transmisión eléctrica (with Salvador Valdés), <u>Cuadernos de Economía</u> 41, 255-283 (2004).

Markets for environmental protection: Design and performance, <u>Estudios de Economía</u> 31, 79-99 (2004).

Is it possible to move the copper market? (with Matti Liski), <u>Cuadernos de Economía</u> 40, 559-565 (2003).

Second-generation electricity reforms in Latin America and the California paradigm (with Hugh Rudnick), Journal of Industry, Competition and Trade 2, 159-172 (2002).

Market structure and environmental innovation, <u>Journal of Applied Economics</u> 5, 293-325 (2002).

Permits, standards, and technology innovation, <u>Journal of Environmental Economics and Management</u> 44, 23-44 (2002).

Prices vs. quantities with incomplete enforcement, <u>Journal of Public Economics</u> 85, 435-454 (2002).

[Reprinted in Michael Hoel (ed.), *Recent Developments in Environmental Economics*, Edward Elgar, Cheltenham, UK, 2004]

A market-based environmental policy experiment in Chile (with J.M Sánchez and R. Katz), <u>Journal of Law and Economics</u> 45, 267-287 (2002).

Multipollutant markets, RAND Journal of Economics 32, 762-774 (2001).

Crisis eléctrica en California: Algunas lecciones para Chile (con J.M. Sánchez), <u>Estudios Públicos</u> 83, 139-162 (2001).

Análisis de los Mercados de Derecho de Aprovechamiento de Agua en las Cuencas del Maipo y el Sistema Paloma en Chile: Efectos de la Variabilidad en la Oferta Hídrica y de los Costos de Transaccion (con Guillermo Donoso y Sebastián Vicuña), Revista De Derecho Administrativo Económico De Recursos Naturales 3(2), 368-387 (2001).

Policies, measures and instruments (with Peter Bohn, Robert Stavins et al), in *Climate Change 2001: Mitigation*, Cambridge University Press, Cambridge, UK, Chapter 6, 399-450 (2001)

Precios eléctricos flexibles (with Hugh Rudnick), Cuadernos de Economia 38, 91-109 (2001).

Análisis del mercado de material particulado en Santiago (with J.M Sánchez and R. Katz), <u>Estudios Públicos</u> 81, 177-203 (2001).

Economía política del cambio climático en Chile (with L. Cifuentes and F. Soto), <u>Estudios de Economía 27</u>, 69-93 (2000).

Optimal design of a phase-in emissions trading program, <u>Journal of Public Economics</u> 75, 273-291 (2000).

Voluntary compliance with market-based environmental policy: Evidence from the US Acid Rain Program, <u>Journal of Political Economy</u> 107, 998-1033 (1999).

[Reprinted in *Economics of Environmental Law*, edited by Richard Brooks, Nathaniel O. Keohane, and Douglas A. Kysar, Edward Elgar, Cheltenham, UK, 2008]

Summary evaluation of the US S02 Emissions Trading Program as implemented in 1995 (with A.D. Ellerman, R. Schmalensee, P. Joskow, and E.M. Bailey), in S. Sorrell and J. Skea (eds.), *Pollution for Sale: Emissions Trading and Joint Implementation*, Edward Elgar, Cheltenham, UK (1999).

Optimal opt-in "climate" contracts, Journal of Applied Economics 1, 363-384 (1998).

The declining trend in sulfur dioxide emissions: Implications for allowance prices (with A.D. Ellerman), Journal of Environmental Economics and Management 36, 26-45 (1998).

An Interim Evaluation of Sulfur Dioxide Emissions Trading (with R. Schmalensee, P. Joskow, A. D. Ellerman, and E.M. Bailey), <u>Journal of Economic Perspectives</u> 12, 53-68 (1998). [Reprinted in R.N. Stavins (ed.), *Economics of the Environment: Selected Readings*, 4th Edition, W.W. Norton's, 2000].

Marketable pollution permits with uncertainty and transaction costs, <u>Resource and Energy Economics</u> 20, 27-49 (1998).

A solute transport model for the acid leaching of copper in soil columns (with J.F. Muñoz, R. Abeliuk and M. Vauclin), <u>Soil Science Society of America Journal</u> 58, 678-686 (1994).

C. WORKING PAPERS AND WORK IN PROGRESS

On Coase and Hotelling (with Matti Liski; paper available)

Multimarket contact, price discrimination, and collusive behavior

Prices vs quantities: The role of commitment

Brand stretching in oligopoly

Evaluating public policies with high-frequency data: Evidence from transportation policies in Mexico and Santiago (with Francisco Gallego and Christian Salas)

D. SOME OTHER PUBLICATIONS (mostly in Spanish)

Colusión en Mercados de Minerales, Administración y Economía UC 58, 7-11 (2005).

Tradeable permits with imperfect monitoring, CESifo Forum 4 (1), 23-27 (2003).

Algunas lecciones para la ley de bonos de descontaminación (con José Miguel Sánchez), *Administración y Economía UC* 42, 24-26 (2002).

Mercados de Agua en Chile (con Guillermo Donoso y Sebastián Vicuña), Jornadas en España, 2002

Comentario a EFG en Economia (2002)

Comentario Mercados de Agua en Ingeniería del Agua, 2001

Bush y el Cambio Climático, El Mercurio, A2, April 24, 2001

Explaining low sulfur dioxide allowance prices: The effect of expectation errors and irreversibility (with A.D. Ellerman) Working paper 98-011, Center for Energy and Environmental Policy Research, MIT, 1998.

Privatización y Regulación de Empresas Sanitarias: Implicancias para Chile (con Manuel Madrid-Aris), Jornadas de Hidráulica 1998, Universidad Católica de Chile, Octubre 1998.

Environmental Regulation and Technological Change, Revista Apuntes de Ingeniería (Junio 1997).

PHD STUDENTS

Jessica Coria, PUC-Economics, August 2007, Essays on the Effect of Environmental Policy on Technological Adoption.

Juan Ignacio Guzmán, PUC-Mineral Economics, May 2007, Essays on Industrial Organization Applied to Mineral Markets.

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