

Roberto Pastén

Justice, Third Environment Court
and Adjunct professor of Economics, Universidad Austral de Chile
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FIELDS OF INTEREST

Economic of Risk and Uncertainty, Environmental and Resource Economics, Law & Economics, Public Finance, Applied Econometrics.

EDUCATION

- 2006 **Ph.D. in Economics.** Field of Concentration: Public Policy
Department of Economics, The University of Alabama, Tuscaloosa, AL, USA.
Dissertation: An Intertemporal Model of Public Finances; Theory and Empirics.
- 1997 **Master of Science in Economics,** Department of Economics, University of Chile, Santiago, Chile. Thesis: Country-Specific Environmental Kuznets Curves. A Cross-Country, Time-Series Approach.
- 1989 **B.A. Business Administration,** Department of Economics, *Universidad de Tarapacá*, Arica, Chile.
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EXPERIENCE

PROFESIONAL

- 2013-present Justice at the Third Environment Court of Chile. Appointed by the President of the Republic with confirmation from the Senate on September 11, 2013. Oath was taken before the President of the Supreme Court on October 7, 2013.

ACADEMIC

- 2013-present Adjunct Professor, *Universidad Austral de Chile*, Valdivia, Chile.
- 2006-present Associate Researcher, Center of Environmental and Natural Resource Economics (CENRE), University of Chile, Santiago, Chile.
- 2009-2013 Associate Professor of Economics, College of Business and Administration, *Universidad de Talca*, Talca, Chile.
- 2011 Fall Visiting professor Economics of Risk and Insurance, PhD in Economics, University of Chile.
- Feb-Dec 2010 Short Term Consultant, The World Bank.
- 2010 Sum. Visiting professor in environmental economics, Groningen University, Netherlands.

2007-2009	Associate Professor of Economics, Department of Economics, <i>Universidad Tecnológica Metropolitana</i> (UTEM), Santiago, Chile
1997-2007	Assistant Professor of Economics, Department of Economics, <i>Universidad Tecnológica Metropolitana</i> (UTEM), Santiago, Chile
2007-2008	Visiting Professor of Macroeconomics, <i>Universidad de Talca</i> , Talca, Chile.
2006 Sum.	Teacher Assistant, Department of Economics, Finance and Legal Studies, The University of Alabama, Tuscaloosa, AL, USA.
2001-2006	Research Assistant, Department of Economics, Finance and Legal Studies, The University of Alabama, Tuscaloosa, AL, USA.
1997-2001	Director, Business School. <i>Universidad Tecnológica Metropolitana</i> (UTEM), Santiago, Chile.

COURSES TAUGHT (U: undergraduate, G: graduate)

• Workshop on Ecosystem Services (G)	<i>Universidad Austral de Chile</i>
• Economics of Risk and Insurance (G)	<i>University of Chile</i>
• Environmental Economics (G)	<i>Universidad de Talca</i>
• Industrial Organization (G)	<i>Universidad de Talca</i>
• Regulatory Economics (G)	ANEPE
• Economic Valuation of Natural Resources (G)	UTEM- <i>Universidad de Barcelona</i>
• Environmental Economics	<i>Universidad de Talca</i>
• Industrial Organization (U)	<i>Universidad de Talca</i>
• Microeconomics (U)	<i>Universidad de Talca</i>
• Econometrics (U)	UTEM
• Corporate Environmental Management (G)	UTEM
• Principles of Microeconomics (U)	The University of Alabama
• Environmental Economics (U)	UTEM
• Macroeconomics I	<i>Universidad de Talca</i>
• Macroeconomics II	<i>Universidad de Talca</i>
• Microeconomics and Advanced Microeconomics (U)	UTEM
• Economics (U)	UTEM
• Game Theory (U)	UTEM

PUBLICATIONS*

Pasten, R., Olszynski, M., Hantke-Domas, M., (2016, forthcoming). Does slow and steady win the race? Ecosystem services in Canadian and Chilean environmental law. *Ecosyst. Serv.*

Pasten, R., (2016, forthcoming). The political economy of the fiscal deficit in the 19th century Chile. *CEPAL Rev.*

* Chronological order.

** Paper on insurance value.

- Cover, J.P., **Pasten, R.**, 2015. Tax tilting and politics: Some theory and evidence for Latin America. *J. Macroecon.* 44, 208–218.
- Figuerola, E., **Pasten, R.**, 2015. Beyond additive preferences: Economic behavior and the income pollution path. *Resour. Energy Econ.* 41, 91–102.
- Figuerola, E., **Pasten, R.**, 2015. The economic value of forests in supplying local climate regulation **. *Aust. J. Agric. Resour. Econ.* 59, 446–457.
- Cerda, A., Garcia, L., **Pasten, R.**, Damino, I., Díaz, M., 2014. The effects of visual information on willingness to pay for a recreational site improvement in Chile. *Innovar* 24, 141–148.
- Figuerola, E., **Pasten, R.**, 2013. A tale of two elasticities: A general theoretical framework for the environmental Kuznets curve analysis. *Econ. Lett.* 119, 85–88.
- Figuerola, E., **Pasten, R.**, 2013. Economically valuing nature resources to promote conservation: An empirical application to Chile's National System of Protected Areas. *Pap. Reg. Sci.* 93, 865–888.
- Pasten, R.**, Figuerola, E., 2012. The environmental Kuznets curve: A survey of the theoretical literature. *Int. Rev. Environ. Resour. Econ.* 6, 195–224.
- Pasten, R.**, Cover, J.P., 2011. Does the Chilean government smooth taxes? A tax-smoothing model with revenue collection from a natural resource. *Appl. Econ. Lett.* 18, 421–425.
- Figuerola, E., **Pasten, R.**, 2011. Improving Benefit Transfer for Wetland Valuation: Income Adjustment and Economic Values of Ecosystem Goods and Services. Waddenacademie, Leeuwarden, Netherlands.
- Pasten, R.**, Cover, J.P., 2010. The Political Economy of Unsustainable Fiscal Deficits. *Cuad. Econ.* 47, 169–189.
- Figuerola, E., **Pasten, R.**, 2009. Country-specific environmental Kuznets: A random coefficient approach applied to high-income countries. *Estud. en Econ.* 36, 5–32.
- Figuerola, E., Calfucura, E., **Pasten, R.**, 2009. Una Aproximación a la Cuantificación y Estudio de la Sustentabilidad (translation: An approximation to quantification and study of sustainability). *Panor. Socioeconómico* 27, 84–98.
- Figuerola, E., **Pasten, R.**, 2008. Forest and water: The value of native temperate forest in supplying water for human consumption: A comment. *Ecol. Econ.* 67, 606–616.
- Pasten, R.**, 2007. A technical note on the sustainability of the fiscal deficit in Chile: 1833–1999. *Panor. Socioeconómico* 35, 160–167.
- Pasten, R.**, 2006. Country-specific Environmental Kuznets Curves in OECD countries. A Cross-Country Time Series Approach. *Int. J. Ecol. Econ. Stat.* 4, 12–28.

RESEARCH

** Paper on insurance value.

- Higher Order Risk Effects in Environment
- A new look to explain the backward bending labor supply.
- Andreoni and Levinson model implies that the environment is a luxury good.
- An efficient framework for efficient programs of compliance with the environmental law (with E. Figueroa).
- Deadweight losses and the standard of proof.
- How much marginal compliance to buy and sell?
- On the definition of environmental harm and ecosystem services.
- Review of higher order risk attitude in environment.
- Rule of law and uncertainty in sanctioning.
- Theory and policy of self-report.
- Can discrimination in using inspection resources increase compliance with the environmental law?
- Public policies for adapting to climate change in Chile.
- Economic growth with a variable intertemporal elasticity of substitution.
- Should more risk aversion (and prudence) increase conservation? (Is conservationism for conservatives?)
- Stationary, nonstationary or both? Exploring changes in persistence in the Chilean fiscal deficit.
- The Atkinson index of inequality under homothetic and non-homothetic social welfare functions.

REVIEWER (Peer review journals)

Economics Letters; Ecological Economics; Journal of Macroeconomics; Papers in Regional Science; Ecosystem Services; Journal of Environmental Economics and Management; Environmental Science and Pollution Research; Resource and Energy Economics; Tourism Management; Journal of the Association of Environmental and Resource Economists; Cuadernos de Economía; Estudios de Economía.

EXTERNALLY FUNDED PROJECTS

- World Bank. Short Term Consultant in Environment. February-December 2010
- UNDP/CONAMA. Detailed economic valuation of protected areas in Chile. August 2009-January 2010.
- National Commission for the Environment. Feasibility Study and Program Design for the development of Satellite Environmental Accounts. Jan-Jun 2009
- World Bank-National Commission for the Environment (CONAMA). Economic framework for the design of optimizing strategies for enforcement and compliance with the environmental law. Jul-Sep 2008
- UNDP-GEF-CONAMA. Building a Comprehensive National System of Protected Areas for Chile, Subcontract: Economic analysis and feasibility study for protected area system financing. Fall 2006
- UNDP-GEF-CONAMA. Financial Sustainability of a National System of Protected Areas. May 2007.

- University of Chile. Domeyko Program on Biodiversity. Project: Design of a multidisciplinary methodology for calculating the economic value of ecosystem goods and services provided by biodiversity and elaboration of a proposal to improve the environmental institutionalality. Under preparation.

SEMINAR AND CONFERENCE INVITED SPEAKER

- Standard of proof and economic instruments of environmental management. School of Law, *Universidad de Externado*. October 19 2016, Bogota, Colombia.
- Risk and the income pollution path. 24th Symposium of the Society for Nonlinear Dynamics and Econometrics. University of Alabama. March 10-11, 2016, Tuscaloosa, AL, USA
- Technique and adjudication: insights. Environmental Law Center (CDA), College of Law, University of Chile. January 14, 2016, Santiago, Chile
- Beyond additive preferences: Economic behavior and the income pollution path. *Núcleo Milenio de Economía Ambiental y Recursos Naturales. Departamento de Economía, Universidad de Concepción*. March 18-19, 2015. Catillo, Maule, Chile.
- Defining resilience under the framework of the economics of risk and uncertainty, Resilience: Just do it. International Workshop, Faculty of Spatial Sciences, University of Groningen. October 9-10, 2014, Groningen, Netherlands.

OTHER SEMINAR AND CONFERENCE

- Non-additive preferences and the income pollution path. 20th European Association of Environmental and Resource Economists (EAERE), University of Toulouse, June 26-29 2013, Toulouse, France.
- Tax Tilting and Politics: Some Theory and Evidence for Latin American Countries. Southern Economic Association, November 16-18, 2012, New Orleans, LA, USA.
- The insurance value of climate regulation and some evidence from risk averse farmers in Chile. 2011 Meeting of the Western Risk and Insurance Association (WRIA). January 2-5, 2011, Santa Barbara, CA, USA.
- Improving benefit transfers for wetland valuation. University of Groningen-Wadensea Academy. September 10, 2010, Groningen, Netherlands.
- A social preferences characterization of the Environmental Kuznets Curve (with E. Figueroa). World Congress of Environmental and Resource Economists, June 28 to July 2, 2010, Montreal, Canada.
- A social preference characterization of the Environmental Kuznets Curve, (with E. Figueroa). Department of Economics, Faculty of Economics and Business, University of Chile. October 2009, Santiago, Chile.
- The Environmental Kuznets Curve and social preferences of the Hyperbolic Absolute Risk Aversion (HARA) class. VU University. 17th Annual Conference of the European Association of Environmental and Resource Economists (EAERE), June 21-27, 2009, Amsterdam, Netherlands.
- Economic value of Chile's National System of Protected Areas (SNAP). III Conference of the Latin America and the Caribbean Environmental and Natural

Resource Economic Association (ALEAR). September 27-29, 2007, *Universidad de Talca*, Talca, Chile.

- The environmental Kuznets curve and social (HARA) preferences. III Conference of the Latin America and the Caribbean Environmental and Natural Resource Economic Association (ALEAR). September 27-29, 2007, *Universidad de Talca*, Talca, Chile.
- Economic value of Chile's National System of Protected Areas (SNAP): Total economic value and its management and social implications. March 26, 2007, University of Molise, Campobasso, Italy.
- Results and conclusions of the study: Economic analysis and feasibility for protected area system financing. United Nation Development Program (UNDP), March 16, 2007, Santiago, Chile.
- The intertemporal efficiency of the fiscal budget in Chile: 1972-2002. Sixth International Conference of Finance. May 8-12, 2006, *Universidad de Santiago*, Santiago, Chile.
- Country-specific environmental Kuznets curves in OECD countries: A cross country-time series approach. Seventh international conference of the Russian society for ecological economics. Saint Petersburg State University, June 23-25, 2005, Saint Petersburg, Russia.
- Tax smoothing with royalties. Brown bag seminar, The University of Alabama, April 19, 2005, Tuscaloosa, AL, USA.

OFFICIAL ACTIVITIES AS JUSTICE, THIRD ENVIRONMENT COURT OF CHILE

- International Official Tour of the Third Environment Court; bilateral meetings included The World Bank Governance Global Practice Unit, the Organization of American States Department of Sustainable Development, and the USEPA Environmental Appeals Board. March 6-12, Washington DC, USA.
- 2015 United Nations Climate Change Conference, 21st Conference of the Parties (COP 21). Organized by the United Nations. November 12 to December 12, Paris, France.
- Adjudicating the Future: Climate Change & the Rule of Law. Organized by the UK Supreme Court and the King's College London. September 2015, London, UK.
- Inter-American Congress on the Environmental Rule of Law. Organized by the Organization of American States. March 30-31, 2015, Montego Bay, Jamaica.
- Judicial Capacity Building Workshop. Organized by the USA Department of Justice and the EPA Environmental Appeals Board. September 2014, Washington DC, USA.

SYMPOSIUM ORGANIZER

- Adjudication of Environmental Disputes, International Conference. Organized by the Third Environment Court of Chile, the Organization of American States and the Chilean Agency for International Cooperation for Development. November 5-6, 2015, Valdivia, Chile.

- Ecosystems, Ecosystem Services and Environmental Jurisdiction, International Seminar. Organized by the Third Environment Court of Chile and the *Universidad Austral de Chile*. November 26, 2014, Valdivia, Chile.
- *Tribunales Ambientales y la Macrozona Sur de Chile* (translation: Environment Courts of Chile and the Southern Macro-zone). Organized by the Third Environment Court and the *Universidad Austral de Chile* School of Law. August 28, 2014, Valdivia, Chile.
- *Encuentro de la Sociedad de Economía de Chile 2010* (translation: 2010 Conference of the Chilean Economic Association). Organized by the Chilean Economic Association (SECHI) and the *University of Talca*. September 3-4, 2010, Talca, Chile.
- *Workshop on Applied Microeconomics*. Organized by the Economics Department, University of Talca. September, 8th 2010, Talca, Chile.
- *Converging Development: Exploring Economic and Academic Ties Between Chile and the USA*. Organized by Universidad Tecnológica Metropolitana, Economic Commission for Latin America and the Caribbean (ECLAC) and the Embassy of USA. May 13th, 2008, Santiago, Chile

AWARDS AND SCHOLARSHIPS

Tuition waiver and scholarship granted by The University of Alabama to finance studies in the PhD program in Economics (2001-2006).

Summer research assistantship, The University of Alabama (2004-2005).

International Travel Grant, The University of Alabama (2006).

Scholarship to outstanding student granted by University of Chile to finance studies in the Master program in economics (1996-1997).