
Matías Piaggio Talice

Date of birth: 19/06/1979

Nationality: Uruguayan / French

Place of birth: Montevideo, Uruguay

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CATIE Headquarters

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EDUCATION

- 2013 PhD in Applied Economics. Department of Economics. Applied Economics Department – Universitat Autònoma de Barcelona., Barcelona, Spain
Cum laude and Prize to Excellence 2012/13
- 2010 M.S. in Applied Economics, Applied Economics Department – Universitat Autònoma de Barcelona., Barcelona, Spain
- 2007 A.B., Economics. Faculty of Economics and Management. – Universidad de la Republica, Montevideo, Uruguay.

RESEARCH VISITING

- 2012/13 SOM Research Institute, University of Groningen. Groningen, The Netherlands. October 2012/January 2013.
- 2011 Department of Economics and Statistics. Università degli Studi di Siena. Siena, Italy. May/June.

PROFESIONAL EXPERIENCE

- 2017/ Present Associate Professor. Faculty of Economics and Management– Universidad de la República, Uruguay.
- 2017/ Present Senior Research fellow. Environment for Development (EfD) - Central America, Tropical Agricultural Research and Higher Education Center (CATIE), Costa Rica.
- 2015/ Present Research Associate. National Researchers System, National Research and Innovation Agency (ANII), Uruguay.
- 2015/ 2017 Research fellow. Environment for Development (EfD) - Central America, Tropical Agricultural Research and Higher Education Center (CATIE), Costa Rica.
- 2011/17 Research assistant. Institute of Economics – Faculty of Economics and Management - Universidad de la República, Uruguay.
- 2013/15 Research Associate (Level 0), National Researchers System, National Research and Innovation Agency (ANII), Uruguay.
- 2006/08 Research assistant. Institute of Economics – Faculty of Economics and Management - Universidad de la República, Uruguay

- 2007 Technical Assistant, National Direction of Handcrafts, Small and Medium-sized enterprises, Ministry of Industry, Energy, and Mining, Uruguay.
- 2006/07 Research Assistant, FREPLATA – Project UNDP/ GEF / RLA 99 / G31 “Reducing and preventing land-based pollution in the Rio de la Plata/Maritime Front” , Uruguay.
- 2003/04 Accountant Assistant, Faculty of Architecture - Universidad de la República, Uruguay.

RESEARCH GROUPS

- 2014/16 Economics and Environment, Institute of Economics, Faculty of Economics and Management - Universidad de la República, Uruguay (responsible: Miguel Carriquiry). Member.
- 2013/16 Economic activity and greenhouse gas emissions in Spain, ECO2012-34591, Ministry of Economics and Competitiveness, Spain: (responsible: Emilio Padilla). Member.

RESEARCH VISITING

- 2017 Resources for the Future, Washington DC, USA. March/May
- 2015 University of North Carolina at Chapel Hill - Department of City and Regional Planning, Chapel Hill, USA. March/May
- 2014 The Beijer Institute of Ecological Economics, Stockholm, Sweden. February/April
- 2013 Applied Economics Department – Universitat Autònoma de Barcelona, Spain. June/October

PROJECTS AND CONSULTANCIES

- 2017 Consultant. World Bank. Review of policy instruments relevant for designing market based instruments for diminishing pollution from non-point sources agricultural activities in Uruguay.
- 2017 Principal Investigator (co-PI Miguel Carriquiry). Achieving Sustainable Development Goals on Socially Inclusive and Sustainable Water through Fiscal and Pricing Reforms in Uruguay, Institute of Economics, Universidad de la República, and National Water Direction, Uruguay.
- 2017 Principal Investigator (co-PI Miguel Carriquiry). Economic evaluation of adaptation to climate change in agriculture using Cost Benefit Analysis, Institute of Economics, Universidad de la República, and Agricultural Ministry, Uruguay.
- 2017 Principal Investigator (co-PI Miguel Carriquiry). Service crops: ecosystem services identification and valuation. Universidad de Buenos Aires, Argentina, and Institute of Economics, Universidad de la República, Uruguay.

2016/2017	Principal Investigator. Forests ecosystem services: protected areas and public health in Costa Rica. Latin American and Caribbean Environmental Economics Program (LACEEP).
2015/18	Researcher responsible for Central America. Ecosystem Services Accounting for Development (ESAforD). Environment for Development (EfD) and Swedish Environmental Protection Agency (SEPA):
2016	Consultant. Diagnostic a design for a regional expansion strategy of the South American Resilience and Sustainability Institute (SARAS ²)
2015/16	Consultant for the Economic Commission for Latin America and the Caribbean (ECLAC). Impacts ad costs from the urban transport in Costa Rica.
2015	Consultant. Wealth Accounting and the Valuation of Ecosystem Services (WAVES), World Bank: Natural Capital Community of Practices for Latin America. Consultant.
2014	Consultant. Direction of Climate Change, Ministry of Livelihoods, Land Planning and Environment, Uruguay. Economic evaluation of climate change measures in the area of Parador Chico, Kiyú (San José, Uruguay).
2008	Consultant for the Social and territorial cohesion sectoral program,– European Union and Planning and Budget Office, Uruguay. Matrix of policies for local development in Uruguay.
2007/08	Consultant. Coastal Zone Integrated Management Program (Ecoplata) – Ministry of Livelihoods, Land Planning and Environment, Uruguay. Proposal of a sustainable development indicators system for the coastal zone management.
2007	Research Assistant. Slum Upgrading Program, Ministry of Livelihoods, Land Planning and Environment, and Institute of Economics, Universidad de la República, Uruguay. Design and implementation of survey to value the slum upgrading program.
2007	Research Assistant. International Labour Organization (ILO) and and Institute of Economics, Universidad de la República, Uruguay. Economic performance of the micro and small enterprises structure analysis in Uruguay between 2000 and 2005.

ADMINISTRATIVE EXPERIENCE

2017/ Present	Executive board member. South American Resilience and Sustainability Institute (SARAS ²)
2017/Present	Executive coordinator. Ecosystem Services Accounting for Development (ESAforD). Environment for Development (EfD) and Swedish Environmental Protection Agency (SEPA):

TEACHING EXPERIENCE

GRADUATE

- 2016/ Present Coordinator and teaching. Economics of Climate Change. Masters in Economics of Development and Climate Change. Tropical Agricultural Research and Higher Education Center (CATIE), Costa Rica.
- 2007/08 Teaching Assistant. Econometrics Time series analysis). Economics Department. Universidad de la República.

UNDER -GRADUATE

- 2014/... Coordinator and teaching. Agriculture and environmental economics. Universidad de la República, Uruguay.
- 2013/2014 Co-coordinator. Environmental economics module, Workshop on the national economy. Universidad de la República, Uruguay.
- 2007/2008 Teaching Assistant. Econometrics. Universidad de la República, Uruguay.
- 2006/07 Teaching Assistant. Statistics II (Inference and Models).Universidad de la República, Uruguay.
- 2004 Teaching Assistant. Introduction to the University. Universidad de la República, Uruguay.

SHORT COURSES

- 2015/2016 Module on Sustainable Development and Natural Capital Accounting. Economics and environment basic competences capacity building program. Central America, Tropical Agricultural Research and Higher Education Center (CATIE), Costa Rica.
- 2014 Ecosystem services and biodiversity – Latin American and Caribbean Environmental Economics Program (LACEEP), Nicaragua.

RESEARCH ADVISOR

- 2017 Thesis committee member. Gladys Miranda. Master in Economy, Development and Climate Change. Central America, Tropical Agricultural Research and Higher Education Center (CATIE), Costa Rica.
- 2013/2015 Research advisor. Javier Montoya. Conservation Strategy Fund. Research fellowships program.
- 2013/2015 Research advisor. Daniel Guerrero. Conservation Strategy Fund. Research fellowships program.

PUBLICATIONS, WORKING PAPERS AND WORK DOCUMENTS

PUBLICATIONS IN REFEREED JOURNALS

- Piaggio, M. Padilla, E. and Román, C. (2017) "The long-run relationship between CO₂ emissions and economic activity in a small open economy: Uruguay 1882 – 2010" in *Energy Economics* (accepted, in press)
- Alcántara, V., Padilla, E. and Piaggio, M. (2016) "NO_x emissions and productive structure in Spain: An input–output perspective", *Journal of Cleaner Production* Vol. 141, pp. 420-428
- de Melo, G. and Piaggio, M. (2015) "The perils of peer punishment. Evidence from a common pool resource framed field experiment", *Ecological Economics*, Vol. 120, pp. 376-393
- Piaggio, M. Alcántara, V. y Padilla, E. (2015) "The materiality of the immaterial. Services sectors and CO₂ emissions in Uruguay", *Ecological Economics*, Vol. 110, pp. 1 - 10.
- Piaggio, M. Alcántara, V. y Padilla, E. (2014) "Economic structure and key sectors analysis of greenhouse gas emissions in Uruguay", *Economic Systems Research*, Vol. 26, Nº 2, pp. 155-176.
- Piaggio, M. and Padilla, E. (2012) "CO₂ emissions and economic activity: Heterogeneity across countries and non-stationary series", *Energy Policy*, Vol. 40, pp. 370 - 381.
- Mordecki, G. and Piaggio, M. (2011) "Regional Integration: economic growth through export diversification", *Revista de Economía y Estadística*, Vol. 0, Nº 1, pp. 51–79
- Piaggio, M. and Méndez, L. (2010) "Desarrollo sustentable en zonas costeras uruguayas desde la dimensión económica", *Revista de Ciencias Sociales*, Departamento de Sociología, Año XXIII, Nº 26.
- Piaggio, M. (2008) "La relación entre el crecimiento económico y la degradación ambiental: Uruguay a lo largo del siglo XX", *Revista Quantum*, Facultad de CC.EE. y A., Vol. III, Nº 1

BOOK CHAPTERS

- Piaggio, M. (2008) "La relación entre el crecimiento económico y la degradación ambiental: Uruguay a lo largo del siglo XX", in Rubio, M. y Bertoni, R. (comp.) *Energía y Desarrollo en el largo siglo XX: Uruguay en el marco latinoamericano* pp. 239 – 267, *Universitat Pompeu Fabra – Universidad de CC.SS., UdelaR*, ISBN: 978-9974-8153-1-5.
- Ferrando, M., Fleitas, S., Hernández, E. and Piaggio, M. (2007) "Capacidad innovadora y desempeño exportador", in Unión de Exportadores (2008) *Exportación Inteligente: Un puente entre el sector Exportador y la Academia*, Unión de Exportadores, pp. 7 – 38.
- Mordecki, G. and Piaggio, M. (2006) "Estructura y Valor Agregado de las Exportaciones Uruguayas", in Unión de Exportadores (2007) *Exportación Inteligente: Un puente entre el sector Exportador y la Academia*, , pp. 7 – 32, and in Instituto de Economía (2007) *Informe de Coyuntura 2006 – 2007*, Instituto de Economía – Facultad de CC.EE. y A., UdelaR.

WORKING PAPERS AND NON-PEER REVIEW PUBLICATIONS

- Alcántara, V., Padilla, P. and Piaggio, M. (2016) "*NOx emissions and productive structure in Spain: An input-output perspective*" Documentos de Trabajo (working papers) 16-02, Instituto de Economía - IECON
- Piaggio, M. Padilla, E. and Román, C. (2015) "*The long-run relationship between CO₂ emissions and economic activity in a small open economy: Uruguay 1882 – 2010*", Instituto de Economía, Facultad de CC.EE. y A., UdelaR, WP 11-15.
- Carriquiry, M. and Piaggio, M. (2014) "*Valoración económica de servicios ecosistémicos: Algunas consideraciones básicas*", IICA (2014) *II Foro sobre Servicios Ecosistémicos en Uruguay presentations, organized by IICA, September 2014.*
- Piaggio, M. (2013) "*Industrial water pollution in Uruguay: Polluting and non-polluting sectors' subsystems through input-output analysis*", WP 52, Latin American and Caribbean Environmental Economics Program (LACEEP)
- Piaggio, M. Alcántara, V. y Padilla, E. (2013) "*Input-Output Subsystems: Agro-Industrial CH₄ and Services CO₂ Emissions in Uruguay*", WP 51, Latin American and Caribbean Environmental Economics Program (LACEEP)
- Piaggio, M. Alcántara, V. y Padilla, E. (2013) "*The materiality of the immaterial. Services sectors and CO₂ emissions in Uruguay*" Working Papers wpdea1306, Department of Applied Economics at Universitat Autònoma of Barcelona.
- de Melo, G. and Piaggio, M. (2012) "*The perils of peer punishment. Evidence from a common pool resource framed field experiment*", WP-38, Latin American and Caribbean Environmental Economics Program (LACEEP), and DT 16/12, Serie de Documentos de Trabajo, Instituto de Economía
- Piaggio, M., Alcántara, V. y Padilla, E. (2012) "*Economic structure and key sectors analysis of greenhouse gas emissions in Uruguay*", Document de treball 12.04, Departament d'Economia Aplicada, Universitat Autònoma de Barcelona
- Piaggio, M. and Padilla, E. (2012) "*CO₂ emissions and economic activity: heterogeneity across countries and non stationary series*", Document de treball 10.09, Departament d'Economia Aplicada, Universitat Autònoma de Barcelona.
- Méndez, L., Rodríguez Miranda, A. and Piaggio, M. (2008) "*Matriz de Interpretación Territorial Económica*", OPP-Programa Uruguay Integra, Área de Políticas Territoriales, DT 01
- Mordecki, G. and Piaggio, M. (2008) "*Integración regional: ¿el crecimiento económico a través de la diversificación de exportaciones?*", Instituto de Economía, Facultad de CC.EE. y A., UdelaR, DT 11/08, ISSN 1688-5090.
- Piaggio, M. and Méndez, L. (2008) "*Desarrollo sustentable en zonas costeras uruguayas desde la dimensión económica*", Programa Ecoplata.
- Piaggio, M. (2008) "*La relación entre el crecimiento económico y la degradación ambiental: Uruguay a lo largo del siglo XX*", Documento de Trabajo, Instituto de Economía, Facultad de CC.EE. y A., UdelaR, Instituto de Economía, Facultad de CC.EE. y A., UdelaR, DT 01/08.

SELECTED WORK IN PROGRESS

- Piaggio, M. and Siikamäki, J. Forest cover and water quality: the value of water purification ecosystem services
- Piaggio, M. and Siikamäki, J. Valuation of parks and non-developed urban green areas in San José, Costa Rica. An approach using choice experiments and hedonic price method.
- Piaggio, M. Robalino, J. and Pacay, E. Forest cover, protected areas, and public health in Costa Rica.

SCHOLARSHIPS AND PRIZES

- | | |
|---------|---|
| 2016 | Latin American and Caribbean Environmental Economics Program (LACEEP). Senior Grant. USD 27,000 |
| 2013 | Måler Scholarship 2013 - The Beijer Institute of Ecological Economics, The Royal Swedish Academy of Sciences |
| 2012 | Latin American and Caribbean Economic Commission (ECLAC) – Euroclimate Programme. First call for presenting works in climate change topics in Latin American and Caribbean countries. USD 5,000 |
| 2011 | Latin American and Caribbean Environmental Economics Program (LACEEP) – Junior research grant. USD 15,000 |
| 2010 | Latin American and Caribbean Environmental Economics Program (LACEEP) – Junior research grant (co- PI de Melo, G). USD 15,000 |
| 2008/10 | Spanish Cooperation Agency for Development, External Affairs Ministry. Doctoral fellowship. |
| 2007 | Articles based on the degree of B.A. of Economics monographs Prize, Institute of Economics, Universidad de la República. USD 500 |
| 2006/08 | Institute of Economics, Universidad de la República, Spain. Research Assistant Scholarship |

CONFERENCES AND PRESENTATIONS:

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| 2017 | 23 th European Association of Environmental Economics and Natural Resources Annual Conference (EAERE) |
| 2015 | 9 th Environment for Development (EfD) Annual Meeting; VI meeting of the Hispano-American Input-Output Analysis society; 10 th years anniversary conference of the Latin American and Caribbean Environmental Economics Program |
| 2014 | 5 th World Congress in Environmental and Resource Economics (WCERE); 5 th Workshop on the Ostrom Workshop (WOW5); 22 nd International Input-Output Conference (IIOA); Faculty of Economics and Management, Universidad de la República, Annual meeting; Economic History Department, University of Stockholm seminar; CEFO/CSD Sustainability, Uppsala University seminar, |

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- 2013 20th Annual Conference of the European Association of Environmental and Resource Economists (EAERE); VI Ibero-american Congress on Development and Environment (CISDA VI); V meeting of the Hispano-American Input-Output Analysis society; 28th Annual Congress of the European Economic Association and 67th European Meeting of the Econometric Society (EEA); 21st International Input – Output Conference (IIOA); XV workshop of the Latin American and Caribbean Environmental Economics Program (LACEEP); Applied Economics Department, Universitat Autònoma de Barcelona lunch seminar;. Economic Commission for Latin America and the Caribbean (ECLAC) seminar/workshop on Challenges in fiscal, social, and environmental policy for sustainable development,
- 2012 20th International Input-Output Conference (IIOA); XIV workshop of the Latin American and Caribbean Environmental Economics Program (LACEEP); 12th Workshop Regional Development Portuguese Association; XIII Conference of the Spanish Critic Economic Association.
- 2011 9th International Conference of the European Society for Ecological Economics
- 2008 XXIII Annual conference of the Central Bank of Uruguay; I Forum on Sustainable development of the Coastal zone, Coastal zone integrated management program (EcoPlata).
- 2007 I Latin-American congress of Economic History (CLADEH); Annual academic meeting of the chamber of exporters of Uruguay.

REVIEWER FOR PROJECTS AND JOURNALS

REVIEWER FOR RESEARCH PROJECTS AND PROPOSALS:

María Viñas Fund- National Research and Innovation Agency (ANII), Uruguay; Clemente Estable Fund. National Research and Innovation Agency (ANII), Uruguay; Latin-American and Caribbean Environmental Economics Program (LACEEP); Master in Integrated Coastal Management - Universidad de la República (UdelaR)

PEER REVIEWED JOURNALS:

Ecologica Economics; Energy Policy; Ecology and Society; Journal of Renewable and Sustainable Energy

OTHER ACADEMIC ACTIVITIES:

Best paper contest based in a B.A. thesis – Faculty of Economics and Management, Universidad de la República, Uruguay

OTHER ACADEMIC ACTIVITIES

OTHER COURSES TAKEN:

- 2014 *Applied General Equilibrium: an Introduction*, by M. Alejandro Cardenete (Loyola Andalusia University, Spain) and Ana I. Guerra (University of Granada). 14th July 2014.
- 2014 *Applied Methods Related to Regime Shifts in Social-Ecological Systems*, by Anne-Sophie Crépin and Therese Lindahl (The Beijer Institute of Ecological Economics, Stockholm, Sweden), Saskia Otto (The Stockholm Resilience Centre, Sweden), Jeffrey Vincent (Duke University, North Carolina, USA), and Aart de Zeeuw (Tilburg University, The Netherlands). Istanbul, Turkey 27th-28th June 2014
- 2013 *Environmental Input-Output Analysis*, by Thomas Wiedmann, School of Civil and Environmental Engineering, The University of New South Wales, Australia, 8th July 2013, Kitakyushu, Japan.
- 2013 *Advances in Evaluating the Environmental and Social Impacts of Environmental Programs*, by Ferraro, P., Department of Economics, Andrew Young School of Policy Studies, Georgia State University, USA. April 12th – 14th 2013, CATIE, Turrialba, Costa Rica.
- 2012/13 *Trade, Environment and Growth*, by Dietzenbacher, E. and Los, B. University of Groningen.
- 2012 *Dynamic Econometric Input-Output Modelling*, by Kratena, K., Austrian Institute for Economic Research – WIFO, 3rd International School of Input-Output Analysis (ISIOA) of the International Input-Output Association (IIOA), June 25th 2012, Bratislava, Slovakia.
- 2012 *An Introduction to Simulation Based Estimation of Limited Dependent Variables Models*, by Capellati, L., Università Cattolica Milano. Departament d'Economia Aplicada, Universitat Autònoma de Barcelona.
- 2012 *Updating Symmetric Input-Output Tables (SIOT)*, by Rueda-Cantuche, J.M., Institute for Prospective Studies, European Commission's Joint Research Center, Spain. 2nd International School of Input-Output Analysis (ISIOA) of the International Input-Output Association (IIOA), February 14th 2012, Leiria, Portugal.
- 2011 *Spatial modeling of land markets and land use change*, by Irwin, E., Department of Agricultural, Environmental and Development Economics, Ohio State University, USA. XII Biannual Short Course, Latin American and Caribbean Environmental Economics Program, September 30 – October 2, 2011, Panamá.
- 2011 *Institutions of Capitalism*, by Bowles, S., Università degli Studi di Siena, Italia
- 2011 *Microeconomics III*, by Bowles, S., Università degli Studi di Siena, Italia.
- 2011 *Nonparametric Methods*, by Peracchi, F., Università degli Studi di Roma "Tor Vergata", Italy. Departament d'Economia Aplicada, Universitat Autònoma de Barcelona.
- 2010/11 *Foundations on Ecological Economics*, by Martínez-Alier, J., Munda, G., van der Bergh, J., Ramos, J. and Mayumi, K., Institut de de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, España.

- 2010 *Panel Data Analysis*, by Baltagi, B., Syracuse University. Instituto de Estudios Fiscales, Ministerio de Economía y Hacienda, Gobierno de España, Madrid.
- 2010 *Socioenvironmental research methods*, by Munda, G., Institut de Ciència i Tecnologia Ambientals, Universitat Autònoma de Barcelona, España.
- 2010 *Inequality, Poverty, Welfare and Redistribution*, by Lambert, P., Department of Economics, University of Oregon, USA. Departament d'Economia Aplicada, Universitat Autònoma de Barcelona.
- 2010 *Competition and Regulation in Infrastructure with weak institutions: Theory and Practice*, by Estache, A., European Centre for Advanced Research in Economics and Statistics, Université Libre de Bruxelles, Belgium. Departament d'Economia Aplicada, Universitat Autònoma de Barcelona.
- 2008 *Methods to identify causal effects – Theory and applications*, by Becker, S., University of Warwick, England. Departament d'Economia Aplicada, Universitat Autònoma de Barcelona.
- 2007 *Introducción a la Evaluación de Proyectos desde el punto de vista del conjunto de la Economía*, by González Posse, E., Unidad de Perfeccionamiento y Actualización de Egresados (UPAE), Facultad de CC.EE. y A., UdelaR, Uruguay.

LANGUAGES:

Spanish (native), English (proficiency)

STATISTICS AND ECONOMETRICS PACKAGES:

- 2013 ArcGIS 10 (ArcView) – Geographic and Teledetection Lab (LIGIT). Universitat Autònoma de Barcelona.
- 2009 R Course, Applied Economics Department, Universitat Autònoma de Barcelona, by Nick Longford, SNTL Business y Universitat Pompeu Fabra.
- 2009 STATA Course, Applied Economics Department, Universitat Autònoma de Barcelona, by Guiseppe De Luca, Università Tor Vergata, ISFOL, Roma.
- 2007 STATA course, Institute of Economics, Faculty of Economics and Management, Universidad de la República.
- 2004 S-Plus workshop, Institute of Statistics, Faculty of Economics and Management, Universidad de la República.
- 2004 E-Views workshop, Faculty of Economics and Management, Universidad de la República.