

# JUAN PABLO TORRES-MARTÍNEZ

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Juan Pablo Torres-Martínez is a Full Professor at the University of Chile. A mathematician by education, his research interests focus on economic theory, especially on topics of mechanism design, matching markets, and general equilibrium theory. His articles have been published in academic journals such as *Econometrica*, *Economic Theory*, *Games and Economic Behavior*, and *Journal of Mathematical Economics*.

At the University of Chile, he was Director of Research for the Faculty of Economics and Business and served as Academic Director of the Ph.D. and the M.A. programs in Economics. Previously, he was a faculty member at the Department of Economics of the Pontifical Catholic University of Rio de Janeiro, Brazil.

## CURRENT ACADEMIC POSITION

Full Professor, Department of Economics, University of Chile

Since 05/2011

## EDUCATION

Ph.D. in Science, IMPA, Brazil

03/2002

Dissertation title: "Infinite horizon incomplete markets: equilibrium, default and bubbles"

Supervised by Aloisio Araujo (primary advisor) and Mário R. Páscoa

M.Sc. in Mathematical Economics, IMPA, Brazil

08/1998

B.Sc. in Mathematics, University of Chile

06/1996

## RESEARCH INTERESTS

Mechanism Design, Matching Markets, General Equilibrium Theory

## PUBLICATIONS IN ACADEMIC JOURNALS

SIRGUIADO, C.J., AND J.P. TORRES-MARTÍNEZ (2024): "Strategic behavior in one-to-one matching markets without outside options," *Games and Economic Behavior*, volume 148, pages 385-397.

PIAZZA, A., AND J.P. TORRES-MARTÍNEZ (2024): "Coalitional stability in matching problems with externalities and random preferences," *Games and Economic Behavior*, volume 143, pages 321-339.

CONTRERAS, J.L., AND J.P. TORRES-MARTÍNEZ (2021): "The roommate problem with externalities," *International Journal of Game Theory*, volume 50, pages 149-165.

BRAITT, M., AND J.P. TORRES-MARTÍNEZ (2021): "Matching with externalities: the role of prudence and social connectedness in stability," *Journal of Mathematical Economics*, volume 92, pages 95-102.

MORENO-GARCÍA, E., AND J.P. TORRES-MARTÍNEZ (2020): "Information within coalitions: risk and ambiguity," *Economic Theory*, volume 69, pages 125-147.

IRAOLA, M.A., F. SEPÚLVEDA, AND J.P. TORRES-MARTÍNEZ (2019): "Financial segmentation and collateralized debt in infinite-horizon economies," *Journal of Mathematical Economics*, volume 80, pages 56-69.

CEA-ECHENIQUE, S., C. HERVÉS-BELOSÓ, AND J.P. TORRES-MARTÍNEZ (2017): "Endogenous differential information," *Economic Theory*, volume 63, pages 51-72. *Special Issue in honor of Bernard Cornet*.

FAIAS, M., AND J.P. TORRES-MARTÍNEZ (2017): "Credit market segmentation, essentiality of commodities, and supermodularity," *Journal of Mathematical Economics*, volume 70, pages 115-122.

CEA-ECHENIQUE, S., AND J.P. TORRES-MARTÍNEZ (2016): "Credit segmentation in general equilibrium," *Journal of Mathematical Economics*, volume 62, pages 19-27.

CORREA, S., AND J.P. TORRES-MARTÍNEZ (2014): "Essential equilibria of large generalized games," *Economic Theory*, volume 57, pages 479-513.

IRAOLA, M.A., AND J.P. TORRES-MARTÍNEZ (2014): "Equilibrium in collateralized asset markets: credit contractions and negative equity loans," *Journal of Mathematical Economics*, volume 55, pages 113-122.

- POBLETE-CAZENAVE, R., AND J.P. TORRES-MARTÍNEZ (2013): “Equilibrium with limited-recourse collateralized loans,” *Economic Theory*, volume 53, pages 181-211.
- ARAUJO, A., M.R. PÁSCOA AND J.P. TORRES-MARTÍNEZ (2011): “Long-lived collateralized assets and bubbles,” *Journal of Mathematical Economics*, volume 47, pages 260-271. *Special Issue in honor of Andreu Mas-Colell*.
- PÁSCOA, M.R., M. PETRASSI AND J.P. TORRES-MARTÍNEZ (2011): “Fiat money and the value of binding portfolio constraints,” *Economic Theory*, volume 46, pages 189-209.
- SEGHIR, A., AND J.P. TORRES-MARTÍNEZ (2011): “On equilibrium existence with endogenous restricted financial participation,” *Journal of Mathematical Economics*, volume 47, pages 37-42.
- FERREIRA, T.R.T., AND J.P. TORRES-MARTÍNEZ (2010): “The impossibility of effective enforcement mechanisms in collateralized credit markets,” *Journal of Mathematical Economics*, volume 46, pages 332-342.
- FUGAROLAS-ÁLVAREZ-UDE, G., C. HERVÉS-BELOSÓ, E. MORENO-GARCÍA, AND J.P. TORRES-MARTÍNEZ (2009): “A market game approach to differential information economies,” *Economic Theory*, volume 38, pages 321-330. *Symposium on Equilibria with Asymmetric Information*.
- PETRASSI, M., AND J.P. TORRES-MARTÍNEZ (2008): “Collateralized assets and asymmetric information,” *Journal of Mathematical Economics*, volume 44, pages 530-534.
- SEGHIR, A., AND J.P. TORRES-MARTÍNEZ (2008): “Wealth transfers and the role of collateral when lifetimes are uncertain,” *Economic Theory*, volume 36, pages 471-502.
- STEINERT, M., AND J.P. TORRES-MARTÍNEZ (2007): “General equilibrium in CLO markets,” *Journal of Mathematical Economics*, volume 43, pages 709-734.
- ARAUJO, A., M.R. PÁSCOA, AND J.P. TORRES-MARTÍNEZ (2002): “Collateral avoids Ponzi schemes in incomplete markets,” *Econometrica*, volume 70, pages 1613-1638.

## WORKING PAPERS

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- [Local non-bossiness](#), with Eduardo Duque and Juan S. Pereyra.
- [On incentives in three-sided markets](#), with Jorge Arenas.
- [The strong effects of weak externalities on school choice](#), with Eduardo Duque.
- [On housing markets with indecisive agents](#), with Emilio Guamán.

## OTHER ACADEMIC OR PROFESSIONAL POSITIONS

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- At the University of Chile:
- Member of the Institutional Self Evaluation Committee Since 05/2022
- At the Faculty of Economics and Business of the University of Chile:
- Member of the Academic Assessment Committee Since 12/2024
  - Alternate Member of the Academic Assessment Committee 12/2021–11/2024
  - Alternate Member of the Academic Qualification Committee (Qualification period 2021-2022) 2023
  - Alternate Member of the Academic Qualification Committee (Qualification period 2019-2020) 2022
  - Director of Research 03/2019–06/2020
  - Academic Member of the Faculty Council (elected by peers) 09/2010–08/2012; 09/2018–08/2020
  - Member of the Faculty Appeals Committee (Qualification period 2017-2018) 2020
  - Member of the Faculty Appeals Committee (Qualification period 2015-2016) 2018
  - Member of the Academic Assessment Committee (Academic Secretary since 06/2013) 05/2012–04/2018
- At the Department of Economics of the University of Chile:
- Member of the Department Council (elected by peers) 10/2019–09/2021
  - Academic Director, Ph.D. Program in Economics 04/2009–12/2011; 01/2015–08/2016
  - Academic Director, M.A. Program in Economics 04/2009–12/2011; 01/2015–08/2016
  - Member of the Department Council (nominated by the Department Chair) 03/2012–12/2013
  - Associate Professor 05/2008–04/2011
- Member of the Area Committee on Economics and Administrative Sciences, CNA-Chile 10/2017–12/2019
- Evaluator of the Ph.D. in Finance at Adolfo Ibañez University on behalf of CNA-Chile 09/2016
- Deputy Director, Study Group of Economic and Business, Fondecyt, Chile 06/2015–05/2016
- Member of the Study Group of Economic and Business, Fondecyt, Chile 06/2013–05/2016
- Tenured Assistant Professor of Economics, Pontifical Catholic University of Rio de Janeiro 07/2004–04/2008
- Researcher CNPq, Brazil (Brazilian research council) 03/2003–04/2008
- Assistant Professor of Economics, Pontifical Catholic University of Rio de Janeiro 03/2002–07/2004
- Visiting Assistant Professor, IMPA, Brazil 03/2002–12/2002
- Mathematical Analyst, LeMans Seguros, Chile 07/1996–09/1996

## RESEARCH GRANTS

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<i>Preservation of natural resources and political turnover: a game theory approach</i> FONDECYT research grant 1180409, Chilean Government (Co-Investigator) Principal Investigator: Adriana Piazza Chifflet	04/2018–03/2022
<i>Ambigüedad y riesgo de crédito en mercados incompletos</i> FONDECYT research grant 1150207, Chilean Government (Principal Investigator)	04/2015–03/2018
<i>Restricciones a la participación financiera en mercados incompletos</i> FONDECYT research grant 1120294, Chilean Government (Principal Investigator)	04/2012–03/2015
<i>Mecanismos de recuperación de crédito: un análisis teórico</i> FONDECYT research grant 1090206, Chilean Government (Principal Investigator)	04/2009–03/2012
<i>Default enforcement mechanisms in addition to collateral repossession</i> CNPq Research Productivity Grant 309226/2007-4, Brazilian Government	03/2008–04/2008
<i>Gerações superpostas, default e informação assimétrica</i> CNPq Research Productivity Grant 307554/2004-0, Brazilian Government	03/2005–02/2008
<i>Equilíbrio, risco de crédito e especulação em mercados sequenciais</i> CNPq Research Productivity Grant 305109/2002-2, Brazilian Government	03/2003–02/2005

## AWARDS, FELLOWSHIPS AND SCHOLARSHIPS

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Best Undergraduate Teacher Award, University of Chile	2016
At the Faculty of Economics and Business of the University of Chile:	
Best Teaching Award (Economics), Undergraduate School of Economics and Business	2015
Best Teaching Award (Economics), Graduate School of Economics and Business	2012, 2015, 2017, 2023
Best Teaching Award, Ph.D. and M.A. Programs in Economics	2023, 2024
Best Teaching Award, Ph.D. Program in Economics	2019
Best Teaching Award, M.A. Program in Economics	2010, 2012, 2015-I, 2015-II, 2016-I, 2021-II
At the Department of Economics of the University of Chile:	
Graduate Teaching Award (core courses)	2016, 2017
Graduate Teaching Award (elective courses)	2016, 2017
Graduate Teaching Award	2009, 2010, 2012, 2015
Coimbra Group Scholarship to visit the University of Salamanca	2013
First place, Fondecyt National Research Funding Competition in Economics and Business	2012
Summer postdoctoral fellowship, IMPA, Brazil	2009
Visiting research grant, University of Salamanca, Spain	2006, 2007
Visiting research grant, Xunta de Galicia - University of Vigo, Spain	2005
Haralambos Simeonidis Prize, ANPEC, Brazil	2002
(Brazilian National Award for Best Ph.D. Dissertation in Economics)	
Ph.D. fellowship, CNPq, Brazilian Government	1998–2002
M.Sc. fellowship, CNPq, Brazilian Government	1997–1998
B.Sc. scholarship, University of Chile	1993–1996
Bronze Medal, National Mathematical Olympiad, Chile	1992

## FORMER GRADUATE STUDENTS

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### PH.D. IN ECONOMICS

At the University of Chile: María Haydée Fonseca Mairena (2019; co-advised with Matteo Triossi); José Luis Contreras Biekert (2014); Sebastián Cea-Echenique (2014). At the Pontifical Catholic University of Rio de Janeiro: Myrian Petrassi (2008).

### M.A. IN ECONOMICS

At the University of Chile: Ljubo Franetovic Ortega (2024); Camilo Jaramillo Sirguiado (2024); Emilio Guamán Maldonado (2022); Eduardo Duque Rosas (2022); Jorge Arenas Molina (2022); Daniel Jaar Michea (2018); Diego Dabed Sitnisky (2017); Fabián Sepúlveda Cortés (2013); Sofía Correa Deisler (2012); Carlos Salazar Rivera (2011); Mario Giarda Ugalde (2011); Víctor Pérez Fernández (2011); Sergio Daga Mérida (2010); Sebastián Cea Echenique (2010); Rubén Poblete Cazenave (2010). At the Pontifical Catholic University of Rio de Janeiro: Thiago Teixeira Ferreira (2007); João Bumachar Resende (2006); Mariano Steinert (2005); Renata Heinemann (2004; co-advised with Eduardo Loyo); Daniel Chrity (2004).

### M.SC. IN MATHEMATICS AND APPLICATIONS

Carolina Gaspar Crespo (NOVA University of Lisbon, 2021; co-advised with Marta Faias).

## TEACHING EXPERIENCE

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### UNDERGRADUATE COURSES

At the University of Chile: Mathematical methods in economics (2010-2015, 2021-2022, 2024-2025); Linear algebra (2012, 2021-2024); Advanced mathematics (2014, 2016-2020); Consumer theory and general equilibrium (2008). At the Pontifical Catholic University of Rio de Janeiro: Market structures and general equilibrium (2002-2004, 2007).

### GRADUATE COURSES

At the University of Chile: Market design (2021-2023, 2025); Advanced microeconomic theory (general equilibrium theory, social choice, mechanism design) (2013-2024); Real analysis and nonlinear optimization (2022-2023); Microeconomic theory (consumer and producer theory, game theory) (2017); Dynamical systems and applications (2017); Game theory (2016); Mathematical economics (2016); Mathematical finance (2013); Microeconomic Theory (consumer and producer theory) (2012-2013); General equilibrium and market failures (2008-2010, 2012); General equilibrium theory (2011); Auction theory (2010); Methods in dynamic economics (2009-2010); Measure theory (2010); Mathematical economics and continuous time finance (2009). At the Pontifical Catholic University of Rio de Janeiro: Mathematical methods in economics (2002-2008); Methods in dynamic economics (2005-2006); Continuous time finance (2003-2005); Game theory (2002-2004). At IMPA, Brazil: Mathematical economics and finance (2002); Advanced mathematical economics (2002).

### SHORT COURSES

Introduction to matching theory (Faculty of Sciences, University of Chile, 2024; Universidad del Pacífico, Perú, 2022; Universidad de los Andes, Chile, 2022; University of Salamanca, Spain, 2015); Introduction to general equilibrium theory with incomplete financial markets (Pontifical Catholic University of Valparaíso, 2018); Introduction to dynamic economics (IMCA, Perú, 2014); Topics in mathematical economics (IMCA, Perú, 2012); Real analysis and optimization for economists (International Summer School, Faculty of Economics, Universidad de los Andes, Colombia, 2011); Infinite horizon incomplete markets (IMPA, Brazil, 2009; University of Salamanca, Spain, 2005); Mathematical methods in economics (University of Chile, 2006).

## OTHER PUBLICATIONS

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ARENAS, J., AND J.P. TORRES-MARTÍNEZ (2023): “Reconsidering the existence of stable solutions in three-sided matching problems with mixed preferences,” *Journal of Combinatorial Optimization*, volume 45, article: 60.

CEA-ECHENIQUE, S., AND J.P. TORRES-MARTÍNEZ (2018): “General equilibrium with endogenous trading constraints,” *PLoS ONE*, volume 13, article number: e0203814, DOI: 10.1371/journal.pone.0203814

MORENO-GARCÍA, E., AND J.P. TORRES-MARTÍNEZ (2012): “Equilibrium existence in infinite horizon economies,” *Portuguese Economic Journal*, volume 11, pages 127-145.

TORRES-MARTÍNEZ, J.P. (2012): “*Elementos de Economía Matemática*,” Monografías del IMCA (Monographs of the Institute of Mathematics and Related Sciences), Editorial Hozlo S.L.R., Lima, Perú. ISBN: 978-9972-242-45-8.

TORRES-MARTÍNEZ, J.P. (2006): “Fixed points as Nash equilibria,” *Fixed Point Theory and Applications*, volume 2006, article ID 36135, DOI: 10.1155/FPTA/2006/36135

## OTHER ACADEMIC OR PROFESSIONAL ACTIVITIES

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### UNIVERSITY COMMITTEES AND SERVICE

At the University of Chile:

Member of the Internal Quality Assurance Committee (Accreditation Process 2025)	2024
Internal Evaluator, M.A. in Applied Economics, Faculty of Physical Sciences and Mathematics	12/2023
Internal Evaluator, Ph.D. in Engineering Systems, Faculty of Physical Sciences and Mathematics	11/2019

At the Faculty of Economics and Business of the University of Chile:

Member of the Self Evaluation Committee	05/2019–06/2020
Member of the Faculty Search Committee	08/2012–05/2015
Member of the Graduate School Council	11/2010–12/2011

At the Department of Economics of the University of Chile:

Junior Recruiting Committee	2019, 2022, 2023, 2025
Member of the Academic Committee of the M.A. in Economic Analysis	08/2011–12/2011; 01/2015–08/2016
Member of the Academic Committee of the M.A. in Public Policies	04/2011–12/2011; 01/2015–08/2016

### SCIENTIFIC COMMITTEES

23rd Annual SAET Conference, Santiago, Chile (session organizer); Workshop on General Equilibrium: Theory and Applications, Brazil, 2019; 16th SAET Conference on Current Trends in Economics, Rio de Janeiro, Brazil (session organizer); 16th International Meeting of the Association of Public Economic Theory, 2016; 2014 Latin American Meeting of the Econometric Society, Brazil; XIII Latin-American Workshop in Economic Theory, Colombia, 2012; 2008 Latin American Meeting of the Econometric Society, Brazil; Workshop in Economic Theory PUC-Rio, Brazil,



2008; XXIX Encontro Brasileiro de Econometria, Brazil, 2007; Workshop on Mathematical Economics (in honor of Aloisio Araujo on his 60th birthday), Brazil, 2006; XXV Encontro Brasileiro de Econometria, Brazil, 2003; Encontro Nacional ANPEC, Brazil, 2003.

#### DISSERTATION/THESIS COMMITTEE MEMBER

*Students of the M.A. in Economics, University of Chile:* Gianina Morales Suazo (2024); Patricio Castillo Díaz (2024); Pedro Schilling Ferraz (2024); Diego Fica Rivera (2019); Mohit Karnani (2018); Daniel Vargas Weil (2016); Loreto Ayala Bosch (2012); Maikol Cerda Zavalla (2010). *Students from other graduate programs:* Pilar Lorenzo Benavente (Ph.D. in Mathematics, Federico Santa María Technical University, 2022); Rodrigo Raad (Ph.D. in Economics, EPGE/FGV, Brazil, 2011); Rodrigo Novinski (Ph.D. in Science, IMPA, 2007); Jose Heleno Faro (Ph.D. in Science, IMPA, 2006); Rogerio de Deus Oliveira (Ph.D. in Economics, PUC-Rio, 2002); Renato Dias Gomes (M.A. in Economics, PUC-Rio, 2005).

#### REFEREEING ACTIVITY

*Referee for:* Annals of Finance, Computational Economics, Decisions in Economics and Finance, Economic Theory, Economic Theory Bulletin, Economics Bulletin, Fixed Point Theory and Applications, Fuzzy Sets and Systems, Journal of Economic Dynamics and Control, Journal of Economic Theory, Journal of Optimization Theory and Applications, Journal of Mathematical Economics, Theoretical Economics. *Grant reviewer for:* CNPq-Brazil, Fondecyt-Chile, UCSC-Chile. *Reviewer for:* Mathematical Reviews (MathSciNet).

#### ACADEMIC VISITS

Department of Economics and Economic History, University of Salamanca, Spain (2025, 2023, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2007, 2006, 2005, 2004); NOVA University Lisbon, Portugal (2024, 2018, 2017, 2016, 2015); Faculty of Economics, Military University Nueva Granada, Colombia (2014); School of Business Administration, University of Miami, United States (2012); Faculty of Economics, Universidad de los Andes, Colombia (2012, 2011, 2010); School of Business and Economics, NOVA University Lisbon, Portugal (2011, 2005, 2004, 2003, 2002, 2001); Center for Economic Research, ITAM, México (2011, 2010, 2009); IMPA, Brazil (2009); Faculty of Economic and Business, University of Vigo, Spain (2007, 2004).

#### INVITED SEMINARS

University of Salamanca, Spain (2025, 2024, 2023); IMCA, Perú (2022); Universidad de los Andes, Chile (2022); Catholic University of Maule, Chile (2022); Quantil S.A.S., Colombia (2022); Pontifical Catholic University of Valparaíso, Chile (2020); Diego Portales University, Chile (2020); New University of Lisbon, Portugal (2020); Málaga University, Spain (2020); Universidad de Talca, Chile (2018); Universidad Nacional de San Martín, Argentina (2017); University of Salamanca, Spain (2016); Universidad del Pacífico, Perú (2014); Military University Nueva Granada, Colombia (2014); University of Salamanca, Spain (2013); Vigo University, Spain (2013); Pontifical Catholic University of Chile (2012, 2011); Universidad de los Andes, Colombia (2010); University of Santiago, Chile (2010, 2009); Universidad Adolfo Ibañez, Chile (2009); Central Bank of Chile (2009); IMPA, Brazil (2009); ITAM, México (2009); Pontifical Catholic University of Chile (2009); CEA-University of Chile (2008); XXIII Jornadas Anuales de Economía, Central Bank of Uruguay (invited paper, 2008); Colóquio Brasileiro de Matemática (2007); University of Chile (2007); Primeira Semana da Matemática Aplicada, UFRJ, Brazil (2006); University of Salamanca, Spain (2006); Vigo University, Spain (2004, 2003); Colóquio Brasileiro de Matemática (2003); São Paulo University, Brazil (2002); Getúlio Vargas Foundation, Rio de Janeiro, Brazil (2002); Federal University of Rio de Janeiro, Brazil (2002).

#### CONFERENCES (*papers presented by a co-author or by myself*)

Latin American Meeting of the Econometric Society (2024, 2023, 2014, 2012, 2008); 35th Stony Brook International Conference on Game Theory, 2024; 2nd Nordic Economic Theory Conference, Helsinki, 2024; 13th UECE Game Theory Lisbon Meetings, 2024; 23rd Annual SAET Conference, 2024; 2023 International Conference on Public Economic Theory; Encuentro de la Sociedad de Economía de Chile - SECHI (2023, 2022, 2019, 2018, 2016, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007); SAET Conference on Current Trends in Economics (16th, 15th, 13th, VIII, VII, VI and V); UECE Lisbon Meeting (2016, 2013, 2011); European Workshop on General Equilibrium Theory (2016, 2014, 2013, 2006, 2004, 2002); 16th International Meeting of the Association of Public Economic Theory, 2016; Manchester Economic Theory Workshop, 2016; 11th World Congress of the Econometric Society, Montreal, 2015; IWGTS-2014; GEdays in York (2013); XIII Latin American Workshop in Economic Theory, Colombia, 2012; Meeting of the Brazilian Econometric Society (XXIX, XXVII, XXVI, XXV); Second General Equilibrium Workshop in Rio de Janeiro, Brazil; Taipei Workshop on Game Theory and Economic Theory, China; NBER Debreu Memorial Conference, U.C.Berkeley; SAET Conference in Honor to R. Aliprantis, Purdue University; XI Encontro de Novos Investigadores de Análise Económica, Spain.

#### ADDITIONAL INFORMATION

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Nationality: Chilean (Born on December, 1974).

Languages: Spanish, Portuguese, English.

Last updated: March, 2025