Sebastián Andrés Cea Echenique

Universidad de los Andes, Chile, Facultad de Ingeniería y Ciencias Aplicadas
Monseñor Álvaro del Portillo 12455, Santiago, Las Condes, Región Metropolitana, CHILE.
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Education

Ph.D. in Applied Mathematics, Université de Paris 1 — 9/2014 - 12/2019
Dissertation title:"Group Formation and Financial Structures"
Jury: J.M. Bonnisseau, B. Cornet (advisor), C. Hervés-Beloso and N. Yannelis.

Ph.D. in Economics, Universidad de Chile — 03/2010 - 11/2014
Dissertation title:"Trading constraints and incomplete markets: information and existence."
Jury: P. Jara-Moroni, A. Jofré, J. Rivera and J.P. Torres-Martínez (advisor).

Master in Applied Mathematics, Université de Paris 1	2012 - 2014
Master in Economics, Universidad de Chile	2009 - 2010
Engineer (Business School), Universidad de Chile	2004 - 2009
Bachelor in Economics, Universidad de Chile	2004 - 2008

Research interests

Theoretical: Simultaneous Optimization, Mathematical Finance, Market Segmentation and Social Investment.
Empirical: Inclusive Finance, Financial Engineering, Education.

PUBLICATIONS

Billette de Villemeur, E., Cea-Echenique, S., and C. Cuevas (2024): "Private provision of public goods under price uncertainty: a comment", Social Choice and Welfare, DOI:10.1007/s00355-024-01526-1.

Cea-Echenique, S., and M. Fuentes (2024): "On the continuity of the Walras correspondence in distributional economies with an infinite-dimensional commodity space", Mathematical Social Sciences, volume 129, pages 61-69, DOI:10.1016/j.mathsocsci.2024.03.005.

Claro, S., M. Santana, T. Ossandon, S. Cea, J. de Amesti, D. Santander, and M. Huerta (2023): "Intelligence Can Grow in All Dimensions: Findings from an Experiment in Latin America", European Journal of Psychology of Education, DOI:10.1007/s10212-023-00713-5.

Amigo, P., S. Cea-Echenique, and F. Feijoo (2021): "A two stage cap-and-trade model with allowance re-trading and capacity investment: The case of the Chilean NDC targets", Energy, volume 221, DOI:10.1016/j.energy.2021.120129.

Cea-Echenique, S., and J.P. Torres-Martínez (2018): "General Equilibrium with Endogenous Trading Constraints", *PLoS ONE* 13(9): e0203814, DOI:10.1371/journal.pone.0203814

Cea-Echenique, S., C. Hervés-Beloso, and J.P. Torres-Martínez (2017): "Endogenous differential information," *Economic Theory*, volume 63, pages 51-72, DOI:10.1007/s00199-015-0924-5

Cea-Echenique, S., and J.P. Torres-Martínez (2016): "Credit segmentation in general equilibrium," *Journal of Mathematical Economics*, volume 62, pages 19-27, DOI:10.1016/j.jmateco.2015.10.011

Book Chapters

Cea, S. and A. Marinovic (2012): "Capital social, Confianza y Educación," in Fraternidad y educación, (Social Capital, Trust and Education) Rodrigo Mardones (Ed.), ISBN 978-950-586-297-9, Ed. Ciudad Nueva Argentina.

Cea, S. and P. Amigo (2020): "Apunta+: Apunte colaborativo utilizando la herramienta Overleaf," in Proyectos de mejoramiento, innovación e investigación de la docencia universitaria 2019, Varios Editores, ISBN 978-956-17-0892-1, Ed. Universitarias de la Universidad Católica de Valparaíso.

Working papers

Cea-Echenique, S., and A. Marinovic: "Distrust Trap: When Changes in Beliefs About the Behavior of Others are Not Paired with Welfare Variations". `http://dx.doi.org/10.2139/ssrn.4522899`
Billette de Villemeur, E., Cea-Echenique, S. and C. Cuevas: "Revisiting the impact of uncertainty in the private provision of public goods". `https://mpra.ub.uni-muenchen.de/id/eprint/115491`
Cea-Echenique, S., Claro, S., and Ossandón, T.: "Pupil size and self-reported measures of Growth Mindset".
Cea-Echenique, S.: "Tax flexibility impact on donations".

Old Working papers

Carvajal, L. and Cea-Echenique, S.: "Willingness to pay for a coastal park in Chile".
Cea-Echenique, S., and M. Grabisch: "Stochastic coalition formation processes with externalities".
Cea, S., M. I. Contreras, C. Martínez and E. Puentes. (2009) "Entrepreneurs: Who are they?, Where do they come from? Where do they go?", Working Paper 308, Department of Economics, University of Chile.

Academic positions

Member of the founding board, Ph.D. Political and Social Studies, Universidad de los Andes	since 2026
Assistant Professor, Universidad de los Andes	since 01/2021
Doctoral Faculty, Ph.D. in Economics, Universidad Nacional de San Martín, Argentina	since 2021
Assistant Professor, Pontificia Universidad Católica de Valparaíso	09/2017 - 12/2020
President and Co-Founder, Fundación Bolsa Social	Since 08/2017-2022
Ph.D. student in Applied Mathematics (Doctorant contractuel), Université de Paris 1	09/2014 - 12/2019
Ph.D. student in Economics, Universidad de Chile	3/2011 - 11/2014
Adviser, *Centro de Estudios Puntaje Nacional* (PuntajeNacional.cl)	2012-2014
Research Trainee, RGEA - Universidad de Vigo	10/2011 - 11/2011
Research Assistant ESSMF program - University of Michigan	9/2010 - 2/2011
Research Assistant Consultancy for United Nations Development Programme Building an Employability Index for Chile	1/2009 - 11/2009
Research Assistant Micro-data Center - Universidad de Chile	1/2009 - 11/2010

Research grants

FONDEF IDeA I+D - ID24I10174 (Researcher)	2024-2026
FONDECYT - Chile 11230513 Iniciación (PI)	2023 - 2026
STIC AmSud RSM (Co-PI)	2022
FAI Iniciación, UAndes (PI)	2021-2023
Fundación Carolina, visiting research grant (PI)	2021-2022
DI Emergente, VRIEA - PUCV (PI)	3/2020 - 3/2021
CORFO - Chile Ingeniería 2030 International Networks (PI)	2017 - 2018
FONIDE - Ministry of Education (Co-PI)	2018
FONDECYT - Chile 3170689 Post-Doc (PI)	2017 - 2020
Alliance Program, Joint Projects Grant, Columbia University and University Paris 1 (Researcher)	2016-2017
FONDECYT - Chile 1120294 (Ph.D. student)	3/2012 - 2/2015
Visiting research grant, Vicerrectoría Asuntos Académicos (PI), Depto. de Posgrado y Postítulo, Universidad de Vigo and Universidad de Chile	10/2011 - 11/2011
CONICYT - Chile 21110938 Ph.D. grant	3/2011 - 8/2014

Awards, fellowships and scholarships

Social innovation and entrepreneurship, SocialxChange 18SAFS-97062-11, CORFO	2019 - 2020
Teaching innovation, UMDU - PUCV, Apunta+	2019
Social entrepreneurship, VRIEA - PUCV, SocialxChange	5/2018 - 3/2019
IBM Bluecode Hackaton Winner (Chile)	5/2018
Postgraduate fellow, University Paris 1	9/2014 - 8/2017
Eiffel Scholarship, French Government	8/2012 - 7/2014
EASSS 2011 (European Agent Systems Summer School), Universidad de Girona - Spain	7/2011
BWGT2010 (Second Brazilian Workshop of the Game Theory Society)	7/2010
Departament of Economics (Ph.D. in Economics), Universidad de Chile	3/2010 - 12/2014
SOCHER-SECHI, Universidad Católica del Norte - Chile	9/2009
Department of Economics (Master in Economics), Universidad de Chile	2009
Faculty of Economics and Business (Entry Ranking), Universidad de Chile	2004

Graduate Students and Committee member

Diego Dabed (MSc Comittee Econ-UChile 2017), Daniel Jaar (MSc Comittee Econ-UChile 2018), Fabio Cofano (MSc advisor, EII-PUCV and Torino Polytechnic joint program), José Tomás Pérez (MSc advisor, Ing-UAndes 2022), Alex Centeno (PhD Comittee Econ-UTalca, ongoing), Andrea Arriet (PhD Comittee EII-PUCV, September 2023), Yolanda Matamala (PhD Comittee EII-PUCV, 2024), Lucas Moyano (MSc advisor, Ing-UAndes 2024), and Hernán Venegas

(MSc advisor, Ing-UAndes 2026 joint Erasmus-QEM ongoing).

Teaching experience

Undergraduate courses

University of Chile: *Lecturer,* Microeconomics I (Spring 2010). *Teaching Assistant,* Labor Economics (Fall 2009), Macroeconomics II, (Fall 2007), Market Equilibrium, (Fall 2007 - Spring 2007), Introduction to Microeconomics, (Spring 2006 - Fall 2007), Macroeconomics II, (Spring 2006 - Fall 2007), Algebra I (Spring 2005).
University Paris 1: *Teaching Assistant,* Probability and Statistics (Winter 2014-2017), Macroeconomics (Winter 2015), Advanced Microeconomics (Winter 2014-2017), and Microeconomics (Winter 2017).
P. Catholic University of Valparaíso: Microeconomics (Fall 2018), Macroeconomics (Winter 2019).
Universidad de los Andes: Principles of Economics (2021-2025), Financial Risk Management (since 2021), Industrial Organization (since 2024), Topics in Finance (2026).

Graduate courses

University of Chile: *Teaching Assistant,* Labor Economics (Spring 2010), Microeconomics I (Fall 2010), Microeconomics II (Spring 2009 - 2010).
University Paris 1: *Teaching Assistant,* Mathematics Tutorial (Winter 2015).
P. Catholic University of Valparaíso: Welfare Economics (Fall 2018-2020), PhD Seminar (2019-2020).
Universidad de los Andes: Mathematical Economics Tutorial (MSc. 2024), Quantitative and Experimental Methods (PhD 2026)

Other professional activities

Expert panels and Advisory Board

Chilean Budget Office - Evaluation of Regional Innovation Funds FIC-R (2019), Ministry of Culture and Arts - Chile and Fundación Bolsa Social (2021), SERNAC Fund for Consumer Unions - Board Member as Academic expert (2022-2024, 2024-2025), UN Inter-Agency Task Force on Social and Solidarity Economy (UNTFSSE) Technical Working Group on Social and Solidarity Economy Statistics (TWG SSES), and Chilean Budget Office - Evaluation of CORFO MiPyME Credits (2025-2026).

Referee

ANID - Chile (Ciencia Pública and FONDECYT), Economic Theory, Estudios de Economía, European Journal of Psychology of Education, Financial Innovation, International journal of educational development, Journal of Mathematical Economics, Mathematical Reviews, and RAIRO - Operations Research.

Academic Visits

Université Jean Monnet, Saint-Étienne (2026, 2025). INCAE Costa Rica (2019, 2020, 2024). Faculty of Economic and Business, Universidad de Vigo (2011, 2015, 2016, 2022). UNSAM Buenos Aires (February 2019). University of Miami (2018). University of Paris 1 (2018). University of Warwick (2018). CIFASIS Rosario (2018, 2021). FGV Sao Paulo (2018). Graduate Business School, Columbia University (2017). Industrial Engineering School, Pontifical University of Valparaíso (2016). Department of Economics, University of Kansas (2016). Department of Economics, Universidad de Chile (2016). Department of Economics and Economic History, Universidad de Salamanca (2014).

Organization of international conferences

Summer School on Economic Theory and Computational Methods, Universidad de los Andes (2022), Organizer of Economic Theory Workshop 2018, School of Industrial Engineering - P. Catholic University of Valparaíso. Member of the organizing committee, Workshop in Economic Theory SWET 2015-2017, University Paris 1 Panthéon-Sorbonne - Paris School of Economics. Member of the support committee, 15th SAET Conference on Current Trends in Economics, University of Cambridge. Member of the support committee, 2015 Annual Doctoral Conference of the Association for the Development of Research in Economics and Statistics, Centre d'Economie de la Sorbonne.

Seminars and conferences with accepted papers

2nd Social Preferences Symposium, Universidad de Santiago de Chile, November 2025. Seminar, Université Jean Monnet, Saint-Étienne, October 2025. SWET, Venice, July 2024 APET, Santiago, January 2024. SAET, Santiago, January 2024. IFORS, Santiago, July 2023. EBEN, Rimini, May 2023. SWET, Paris, July 2022. EWGET, Warsaw, July 2022. SIDI - UNSAM, September 2020. SAET, Ischia, July 2019. EWGET, Berlin, June 2019. Seminar, Universidad de Talca, May 2019. Seminar, Universidad Diego Portales, September 2018. EWGET, Paris School of Economics - University Paris 1, June 2018. SAET, Taipei, June 2018. SIDI - UNSAM, September 2017. SAET, Faro, June 2017. Ph.D. Seminar, New York University, May 2017. Seminar, Pontifical University of Valparaíso, November 2016. Seminar, Universidad de Vigo, September 2016. SING 12, University of Southern Denmark, July 2016. SAET, IMPA, July 2016. SWET, Université de Paris 1, June 2016. Economic Theory seminar, Paris School of Economics - University Paris 1, January 2016. Seminar, Universidad de Santiago de Chile, January 2016. ESWC, Montreal, August 2015. SAET, University of Cambridge, July 2015. EWGET, Università degli Studi di Napoli Federico II, June 2015. LAMES, Universidade de São Paulo, November 2014. SECHI, Universidad de Chile, September 2014. EWGET, Université de Paris 1, June 2014. VII Workshop on Economic Theory, Universidad de Vigo, September 2013

(invited). SECHI, Universidad Adolfo Ibañez, Viña del Mar Campus, September 2013. SAET, MINES ParisTech, July 2013 (invited). Business School Seminar, Universidad Adolfo Ibañez, July 2013. GEDays, University of York, July 2013. EWGET, Institute of Advanced Studies of Vienna, May 2013. IV Workshop on Equilibrium Analysis, Università degli Studi di Napoli Federico II, January 2013. VI Workshop on Economic Theory, Universidad de Vigo, September 2012. 6th Annual meeting of the Portuguese Economic Journal, Universidade do Porto, July 2012. UECE Lisbon Meetings 2011 in Game Theory and Applications, Universidade Técnica de Lisboa, November 2011 (invited). Seminario Universidad de Vigo, Octubre 2011 (invited). EASSS, Universidad de Girona, July 2011. BWGT, Universidade de São Paulo, July-August 2010. SECHI, Universidad de Talca, September 2010. Research Committee, Central Bank of Chile, July 2010 (invited). SECHI, Universidad Católica del Norte, Antofagasta Campus, September 2009.

ADDITIONAL INFORMATION

Nationality: Chilean and French (Born on March, 1986).
Languages: Spanish (native), French (fluent), English (fluent), German (C2 obtained 2003).
Technical skills: Fluent (R, Python, Julia, SQL, Unix-based-systems, AWS, IBM Cloud, Azure), Deprecated (Ruby, STATA, GAUSS, FORTRAN, Javascript, Matlab, PHP).

Last updated: May 2026