

Nicolas Andres Figueroa Gonzalez

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Pontificia Universidad Católica
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PERSONAL DATA Full Name: Nicolas Andres Figueroa Gonzalez
Date of Birth: April 29, 1976
Place of Birth: Santiago, Chile
Nationality: Chilean
Actual Position: Associate Professor Pontificia Universidad Católica de Chile

RESEARCH INTERESTS Game Theory, Mechanism Design, Market Design, Industrial Organization

STUDIES **University of Minnesota**, Minnesota, USA

Ph.D. in Economics July 2006.

- Thesis's subject: Two Essays in Mechanism Design
- Advisor: Marcel Richter.

Universidad de Chile, Santiago, Chile.

Ingeniero Civil Matemático, July 2000.

- Thesis's Subject: Some Stochastic Games with Complete and Incomplete Information
- Advisor: Roberto Cominetti.

B.S. Mathematical Engineering, 1999.

AWARDS AND GRANTS

Instituto Milenio (as key researcher), Complex Engineering Systems, years 2019-2022.

Instituto Milenio (as young researcher), Complex Engineering Systems, years 2007-2018.

Núcleo Milenio (as key researcher), Information and Coordination in Networks, years 2014-2017.

Núcleo Milenio (as young researcher), Information and Coordination in Networks, years 2011-2014.

Fondecyt (as main researcher), Information Acquisition in Signaling Games and Disclosure Games, years 2019-2021.

Fondecyt (as main researcher), Mechanism Design: Beyond Monotonicity, years 2014-2016.

Fondecyt (as main researcher), Procurement Mechanisms: Cost Reduction, Incentives to Investment and Barriers to Entry, years 2008-2010.

Fondecyt (as coinvestigator), An analysis of the procurement mechanism for public defenders: moral hazard and criminal supply, years 2007-2008.

Fondecyt (as coinvestigator), Incentives, Reputation and Teachers' Quality, years 2011-2012.

Dissertation Fellowship, Graduate School, University of Minnesota, years 2005-2006.

TEACHING EXPERIENCE	<p>Pontificia Universidad Católica de Chile 2011-present, Santiago, Chile. Industrial Organization. Intermediate Microeconomics II. Real Analysis. Graduate Microeconomics III. Graduate Microeconomics I.</p> <p>Universidad de Chile, 2006-2011, Santiago, Chile. Industrial Organization. Advanced Microeconomics for Masters. Auction Theory. Mechanism Design. Informational Asymmetries in Macroeconomic Models. Advanced Microeconomics.</p> <p>University of Minnesota, 2002-2005, Minnesota, USA. Game Theory, Fall 2004. Industrial Organization, Fall 2003 and Spring 2004 Mathematical Economics, Spring 2003. Principles of Macroeconomics, Summer 2002-2004.</p>
TEACHING AWARDS	Distinguished Teacher:, Spring 2016 Fall 2017, Fall 2018, Fall 2019.
MASTER'S STUDENTS	Gonzalo Cisternas (Assistant Professor at MIT Sloan School of Business, Princeton Ph.D.) Jorge Lemus (Assistant Professor at Illinois Urbana-Champaign, Northwestern Ph.D.) Carlos Ramírez (Board of Governors, Tepper Business School Ph.D.) Jorge Vásquez (Bank of Canada, University of Wisconsin Ph.D.) Tibor Heumann (HEC Montreal, Yale Ph.D.) Diego Vega (Southern Methodist University, Olin Business School Ph.D.) Nicolás Inostroza (Rotman School of Business, Northwestern Ph.D.) Alexis Orellana (Ph.D. student at Rochester) Graciela Pérez (Ph.D. student at Stanford) Jorge Mesías (Ph.D. student at Arizona State University) Beatriz Ahumada (Ph.D. student at University of Pittsburgh) Dominique Araya (Ph.D. student at Stanford University) León Guzmán (Ph.D. student at New York University) Fernando Ochoa (Ph.D. student at New York University)
PH.D. STUDENTS	Carla Guadalupi (graduated 2015), now professor at Universidad del Desarrollo. Caroline Laplace (graduated 2016). Mauricio Sauma (expected graduation 2020) Sebastián Castillo (expected graduation 2021)
PUBLICATIONS	<p><i>Imperfect Information Transmission Between Banks and Investors: Macroeconomic Implications</i> (with Oksana Leukhina and Carlos Ramírez). <i>Journal of Monetary Economics</i>, forthcoming.</p> <p><i>Convincing Early Adopters: Price signals and Information Transmission</i> (with Carla Guadalupi). <i>Review of Industrial Organization</i>, forthcoming.</p> <p><i>Patent Trading Flows of Small and Large Firms</i> (with Carlos Serrano). <i>Research Policy</i>, September 2019. Vol. 48(7), 1601-1616</p> <p><i>Effects of Asymmetric Information on Airport Congestion Management Mechanisms</i> (with Olivia Aravena)</p>

and Leonardo Basso). *International Journal of Industrial Organization* 62, 2019, 4-27.

Mechanism Design When Players' Preferences and Information Coincide (with Marcelo Cafferla and Juan Dubra). *Mathematical Social Sciences* 91, 2018, 56-61.

Cash Flows and Credit Cycles(with Oksana Leukhina). *Journal of Banking and Finance* 87, 2017, 318-332.

Regulation under Incomplete Information: Prices versus Quantities (with Leonardo Basso and Jorge Vásquez). *Rand Journal of Economics* 48(3), 2017, 557-578.

Contracts as a Barrier to Entry (with Enrique Ide and Juan Pablo Montero). *American Economic Review* 106 (7), 2016, 1849-1877.

Lending Standards and Their Impact on Productivity(with Oksana Leukhina). *Journal of Economic Dynamics and Control* 59, 2015, 1-21.

Sequential Procurement Auctions and Their Effect on Investment Decisions (with Gonzalo Cisternas). *Rand Journal of Economics* 46(4), 2015, 824-843.

Pricing with Markups in Industries with Increasing Marginal Costs(with José Correa, Roger Ledermann and Nicolás Stier-Moses). *Mathematical Programming Ser.A* 146, 2014,143-184.

Asymmetric Partnerships(with Vasiliki Skreta). *Economics Letters* 115(2), May 2012, 268-271.

Optimal Allocation mechanisms with Single-dimensional Private Information(with Vasiliki Skreta). *Review of Economic Design* 15(3), 2011, 213-243.

On the Planner's Loss Due to Lack of Information in Bayesian Mechanism Design(with José Correa).Lecture Notes in Computer Science, 5814 (2009), pp. 72–84. (Proceedings of SAGT 2009)

On the Planner's Loss Due to Lack of Information in Bayesian Mechanism Design(with José Correa).Lecture Notes in Computer Science, 5814 (2009), pp. 72–84. (Proceedings of SAGT 2009)

A Note on Optimal Auctions(with Vasiliki Skreta). *Economics Letters* 102(3), March 2009, 169-173.

The Role of Optimal Threats in Auction Design(with Vasiliki Skreta). *Journal of Economic Theory* 144(2), March 2009, 884-897.

INTERDISCIPLINARY WORK *Adversarial Classification Using Signaling Games with An Application to Phishing Detection*. (with Gastón L'huillier and Richard Weber). *Data Mining and Knowledge Discovery* 2016, 1-41.

MILP reformulations for the design of biotechnological multi-product batch plants using continuous equipment sizes and discrete host selection. (with Daniel Espinoza, Gabriela Sandoval and Juan Asenjo). *Computers & Chemical Engineering* 84, 2016, 1-11.

Optimization of a biotechnological multiproduct batch plant design for the manufacture of four different products: A real case scenario. (with Daniel Espinoza, Gabriela Sandoval and Juan Asenjo). *Biotechnology and Bioengineering*, 114(6), 2017, 1252-1263.

The Chilean Anti-Cartel Experience: Accomplishments and Challenges (with Umut Aydin). *Review of Industrial Organization* 54(2), 2019, 327-352.

- WORKING PAPERS *What to Put on the Table.* (with Vasiliki Skreta). R&R, second round JPubET.
- Contracts with Sabotage* (with Joaquín Poblete).
- Convincing Early Adopters: Price Signals and Information Transmission* (with Carla Guadalupi).
- Signalling under Endogenous Information Acquisition* (with Carla Guadalupi).
- Do you like me enough? The impact of restricting preferences ranking in a university matching process* (with Jeanne Lafortune and Alejandro Saenz).
- Distressed Sales: Optimal Security Design* (with Nicolás Inostroza).
- LATEST CONGRESS AND CONFERENCE PRESENTATIONS *Do you like me enough? The impact of restricting preferences ranking in a university matching process.* Latin American Meeting of the Econometric Society, Puebla , México , November 2020.
- Do you like me enough? The impact of restricting preferences ranking in a university matching process.* Latin American Workshop in Economic Theory, Bogotá , Colombia, July 2020.
- Convincing Early Adopters: Price Signals and Information Transmission.* Latin American Meeting of the Econometric Society, Buenos Aires , Argentina, November 2017.
- Convincing Early Adopters: Price Signals and Information Transmission.* 44th Annual Conference of the European Association for Research in Industrial Economics - EARIE, Maastricht, Netherlands, July 2017.
- Do you like me enough? The impact of restricting preferences ranking in a university matching process.* 44th Annual Conference of the European Association for Research in Industrial Economics - EARIE, Maastricht, Netherlands, July 2017.
- Information Acquisition, Quality and Signalling through prices.* Public Economic Theory Conference, Luxembourg City, Luxembourg July 2015.
- Contracts as Barriers to Entry.* North American Summer Meeting of the Econometric Society, Minneapolis. USA. June 2014.
- Contracts as Barriers to Entry.* European Meeting of the Econometric Society, Toulouse. France. July 2014.
- Monopoly Pricing Under Incomplete Information: Prices v/s Quantities.* Latin American Meeting of the Econometric Society, Lima. Perú. November 2012.
- Auctions, Negotiations and Information Acquisition.* 4th World Congress of the Econometric Society, Istanbul. July 2012
- Procuring Legal Services Through Decentralized Contracting.* Latin American Meeting of the Econometric Society, Santiago. Chile. November 2011.
- Auctions with an Ex-Post Negotiation.* Workshop in Economic Theory of the Econometric Society. Rio de Janeiro, Brasil. December 2010.
- REFEREING ACTIVITY *Econometrica, Review of Economic Studies, Theoretical Economics, Journal of Economic Theory, Economic Journal, Journal of Banking and Finance, Games and Economic Behavior, International Economic Review,*

Rand Journal of Economics, Journal of Economic Behavior and Organizations, Journal of Industrial Economics, Journal of Political Economic Theory, Review of Economic Design, Social Choice and Welfare, Operations Research, Management Science and Operations Management.