

## EMERSON MELO

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DEPARTMENT OF ECONOMICS  
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## EDUCATION

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CALIFORNIA INSTITUTE OF TECHNOLOGY  
PhD in Social Sciences, June 2013.

UNIVERSIDAD DE CHILE  
Master of Arts in Economics, October 2006.  
Bachelor of Arts, March 2004. Major: Economics.

## RESEARCH AND TEACHING INTERESTS

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*Research:* Game Theory, Microeconomic theory, Economic and Social Networks, Applied Econometrics.

*Teaching:* Game Theory, Social and Economic Networks, Algorithmic game theory, Network games.

## POSITIONS

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- August-2015, Assistant professor of Economics, Indiana University Bloomington.
- 2013-2015, Postdoc at the Cornell Theory of Computation group and the Center for the Interface of Networks, Computing, and Economics (CINCE).
- Junior researcher at the Central Bank of Chile, January 2006 to August 2008.

## OTHER AFFILIATIONS

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- Affiliate, Indiana University Network Institute, 2016-present.
- Affiliate, Interdisciplinary training program in complex networks and systems, Indiana University, 2017-present.

## FELLOWSHIPS AND AWARDS

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- California Institute of Technology Graduate Fellowship 2008-2013.
- Fellowship CONICYT-Fullbright 2007 (Declined).
- Universidad de Chile Graduate Fellowship 2004.
- Universidad de Chile-CONICYT Fellowship to develop Bachelor's Thesis 2002.

## PUBLICATIONS

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- [1] “*Some Remarks on CCP-based Estimators of Dynamic Models*”, joint with Mogens Fosgerau, Matt Shum, and Jesper Riis-Vestergaard, *Economics Letters*, **204**, (2021).
- [2] “*Discrete Choice and Rational Inattention: a General Equivalence Result*”, (joint with Mogens Fosgerau, Matt Shum, and André de Palma) *International Economic Review*, **61**(4), pp. 1569-1589, (2020).
- [3] “*Testing the quantal response hypothesis*”, (joint with Kirill B. Pogorelskiy and Matt Shum), *International Economic Review*, **50**(1), pp. 53-74, (2019).
- [4] “*Bounding causal effects in ecological inference problems*”, (joint with Alejandro Corvalan, Bob Sherman, and Matt Shum), *Political Science Research and Methods*, **5**(3), pp. 555-565, July (2017).
- [5] “*Price competition, free entry, and welfare in congested markets*”, *Games and Economic Behavior*, **83**, pp. 53–72, (2014) .
- [6] “*A representative consumer theorem for discrete choice models in networked markets*”, *Economics Letters*, **117**(3), pp. 862–865, (2012).
- [7] “*Congestion pricing and learning in traffic network games*”, *Journal of Public Economic Theory*, **13**(3), pp. 351–367, (2011).
- [8] “*A payoff-based learning procedure and its application to traffic games*”, (joint with Roberto Cominetti and Sylvain Sorin). *Games and Economic Behavior*, **70**(1), 71–83, (2010).

## WORKING PAPERS

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- [9] “*On the Uniqueness of Quantal Response Equilibria and its Application to Network Games*”, Revised and Resubmitted, (2021).
- [10] “*A Recursive Logit Model with Choice Aversion and Its Application to Transportation Networks*”, joint with Jorge Lorca and Austin Knies, R&R, , (2021).
- [11] “*Information Processing and Quality Choice: The Case of Organic Milk*”, joint with Mike DeDad, Vova, Lugovski, and Alexander Skiba, Submitted, (2021).
- [12] “*A Variational Approach to Network Games*”, (2018).

## WORK IN PROGRESS

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- [13] “*Learning in Random Utility Models via Online Decision Problems*”, (2021).
- [14] “*Portfolio Allocation and Systemic Risk in a Financial Network*”, joint with Jorge Lorca, Under Revision (2021).

## TALKS

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- 2021, Universidad Adolfo Ibanez, NSF NRT Interdisciplinary Training in Complex Networks and Systems IU, The Bloomington Symposia: Contagion, April 22-24 IU, Sixth Annual Conference on Network Science and Economics, Southern Economic Association 91st Annual Meeting Nov 20-21, (Scheduled invited talk) .
- 2019, Universidad Adolfo Ibanez, Univesidad de los Andes, Great Lakes Workshop on Data Science at Notre Damme University.
- 2018, Fourth Annual conference on Network Science and Economics, Midwest Econ Theory Conference, OSU, IUNI open science, Purdue.
- 2017, Third Annual conference on Network Science and Economics, Midwest Econ Theory Conference, WUSTL, NUS, Universidad de Chile.
- 2016, IIOC, North American Summer Meeting of the Econometric Society, LAMES.
- 2015, Indiana University, UW-Bothell, USC, Cowles Summer Conference: Heterogeneous Agents and Microeconometrics June 9-10.
- 2014, Cornell University.
- 2013, Bank of Canada, Iowa University, Mini-conference on Economic Theory at University of Kansas, Mini-conference on Networks at Brown, Cornell University, University of Rochester.
- 2009 & 2012, International Conference on Game Theory Stony Brook, NY.
- 2011, California Econometrics Conference, University of Southern California, CA.
- 2010, Behavioral & Quantitative Game Theory Conference on Future Directions, Newport Beach, CA SISL/Yahoo! Microeconomics Workshop, Huntington Beach, CA.
- 2008, GAMES 2008.

## REFEREEING SERVICE

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*Econometrica, Economic Theory, Games and Economic Behavior, GAMES, Journal of Dynamics and Games, Journal of Economic Behavior & Organization, Journal of Economic Theory, Management Science, Mathematical Social Sciences, NSF, CONICYT, The B.E. Journal of Theoretical Economics, Operations Research, Social Choice and Welfare, SAGT.*

## PROFESSIONAL ACTIVITIES

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- Co-organizer, Fifth Network Science and Economics Conference, Indiana University (Bloomington), April 26-28, 2019.
- Organizing Committee: Midwest Economic Theory and International Trade Conference, Indiana University (Bloomington), May 31-June 2, 2019.