

EMERSON MELO

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EDUCATION

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

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

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

POSITIONS

- July-2022-present, Associate professor of Economics, Indiana University Bloomington.
- August-2015-June-2022, 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

- Affiliate, Indiana University Network Institute, 2016-present.
- Affiliate, Interdisciplinary Training Program in Complex Networks and Systems, Indiana University, 2017-present.

FELLOWSHIPS AND AWARDS

- 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

- [1] “A Recursive Logit Model with Choice Aversion and Its Application to Transportation Networks”, joint with Jorge Lorca and Austin Knies, *Transportation Research Part B: Methodological*, **155**, pp. 47-71, (2022).
- [2] “On the Uniqueness of Quantal Response Equilibria and its Application to Network Games”, *Forthcoming at Economic Theory*.
- [3] “Some Remarks on CCP-based Estimators of Dynamic Models”, joint with Mogens Fosgerau, Matt Shum, and Jesper Riis-Vestergaard, *Economics Letters*, **204**, (2021).
- [4] “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).
- [5] “Testing the quantal response hypothesis”, (joint with Kirill B. Pogorelskiy and Matt Shum), *International Economic Review*, **50**(1), pp. 53-74, (2019).
- [6] “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).
- [7] “Price competition, free entry, and welfare in congested markets ”, *Games and Economic Behavior*, **83**, pp. 53–72, (2014) .
- [8] “ A representative consumer theorem for discrete choice models in networked markets ”, *Economics Letters*, **117**(3), pp. 862–865, (2012).
- [9] “Congestion pricing and learning in traffic network games”, *Journal of Public Economic Theory*, **13**(3), pp. 351–367, (2011).
- [10] “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

- [11] “Learning in Random Utility Models via Online Decision Problems”, (2022).
- [12] “On the distributional Robustness of Finite Rational Inattention Models”, (2022).
- [13] *Information Processing and Quality Choice: The Case of Organic Milk*”, joint with Mike DeDad, Vova, Lugovski, and Alexander Skiba, Submitted, (2022).
- [14] “A Variational Approach to Network Games”, (2018).

WORK IN PROGRESS

- [15] “Portfolio Allocation and Systemic Risk in a Financial Network”, joint with Jorge Lorca, Under Revision (2021).

TALKS

- 2022, Advances in Decision Analysis-Washington DC, Midwest Economic Theory, IUNI Seminar.
- 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, (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

Econometrica, Economic Theory, Games and Economic Behavior, GAMES, Journal of Dynamics and Games, International Economic Review, 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, Theoretical Economics, Transportation Research Part B.

PROFESSIONAL ACTIVITIES

- 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.