

FERNANDO PAYRO

270 Bay State Rd, Office B18
Department of Economics, Boston University
Boston MA 02215 USA
Cell: (617) 680-5229
Fax: (617) 353-4449
Email: fpayro@bu.edu
Web site: <https://sites.google.com/site/ferpayrochew/home>

EDUCATION

Ph.D., Economics, Boston University, Boston MA, May 2021 (expected)
Dissertation Title: *Essays on "Commitment and Flexibility"*
Dissertation Committee: Larry Epstein, Jawwad Noor and Bart Lipman

M.A., Political Economy, Boston University, MA, 2018

B.S., Applied Mathematics (*Highest Honors*), ITAM, Mexico CDMX, 2015

B.A., Economics (*Honors*), ITAM, Mexico CDMX, 2015

FIELDS OF INTEREST

Microeconomic Theory, Decision Theory, Behavioral Economics

PUBLICATIONS

"Revealed Preference and the Subjective State Space Hypothesis," *Journal of Mathematical Economics*, (2019) 82: 61-68.

"Similarity-based mistakes in choice," (with Levent Ülkü) *Journal of Mathematical Economics*, (2015) 61: 152-156.

OTHER PUBLICATIONS

"Implications of the Patient Protection and Affordable Care Act on Insurance Coverage and Rehabilitation Use Among Young Adult Trauma Patients," (with Cheryl Zogg, John Scott, Lindsey Wolf, Thomas Tsai, Peter Najjar, Olubode Olufajo, Eric Schneider, Elliott Haut, Adil Haider, Joseph Canner) *JAMA surgery*, (2016) 151: e163609-e163609.

WORKING PAPERS

"Mixture-Dependent Preference for Commitment," October 2020. Job Market paper.

WORK IN PROGRESS

"Updating Under Imprecise Information"
"A Theory of Subjective Ambiguous Information" (joint with Yi-Hsuan Lin)

PRESENTATIONS

6th World Congress of the Game Theory Society, Budapest 2021 (scheduled)
Decision Theory Student Conference 2020
3rd ITAM Alumni Conference, ITAM Mexico CDMX, 2019
14th SAET Conference on Current Trends in Economics WASEDA UNIVERSITY Tokyo, Japan, 2014 (by co-author)

The 12th Meeting of the Society for Social Choice and Welfare, Boston College Chestnut Hill, MA, 2014 (by co-author)

FELLOWSHIPS AND AWARDS

Dean's Fellowship, Boston University, 2015-2020
Special Research Fellowship, Boston University, Spring 2019
Best Second Year Paper Award, Boston University, 2018
Summer Research Fellowship, Boston University, 2016

WORK EXPERIENCE

ACADEMIC

Research Assistant for Professor Larry Epstein, Department of Economics, Boston University, Spring 2018, Summer 2017,18,19
Research Assistant for Professor Levent Ülkü, CIE, ITAM, August 2014-May2015

NON-ACADEMIC

Economist, ProMexico, February 2015-July 2015

REFeree EXPERIENCE

Econometrica, Theoretical Economics, Mathematical Social Science

TEACHING EXPERIENCE

Instructor, Introduction to Mathematics for Economists-PhD Math Camp, Boston University, Summer 2017,18,19,20
Teaching Fellow, Introduction to Mathematical Economics (PhD), Department of Economics, Boston University, Fall 2017, 18, 19
Teaching Fellow, Principles of Microeconomics, Department of Economics, Boston University, Fall 2016, Spring 2020
Teaching Assistant, Principles of Microeconomics, Department of Economics, ITAM, Fall 2010-Spring 2013
Teaching Assistant, Intermediate Microeconomic Analysis, Department of Economics, ITAM, Fall 2013-Spring 2014

LANGUAGES

Fluent in English and Spanish

COMPUTER SKILLS: MATLAB, R, STATA, LaTeX

CITIZENSHIP/VISA STATUS: Mexico/F1

REFERENCES

Professor Larry Epstein
Department of Economics
Boston University
Phone: (617) 353-4142
Email: lepstein@bu.edu

Professor Jawwad Noor
Department of Economics
Boston University
Phone: (617) 353-4436
Email: jnoor@bu.edu

Professor Bart Lipman
Department of Economics
Boston University
Phone: (617) 353-2995
Email: blipman@bu.edu

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Mixture-Dependent Preference for Commitment (Job Market Paper)

The literature on temptation and self-control is motivated by evidence of a preference for commitment. Because of its reliance on the Independence axiom, this literature cannot accommodate *mixture-dependent* preference for commitment. In order to capture such behavior, this paper generalizes Gul and Pesendorfer (2001) by replacing their Independence axiom with a suitably adapted version of the Mixture-Betweenness axiom of Chew (1989)-Dekel (1986). Axiomatizing the model involves a novel extension of the Mixture Space Theorem to preferences that satisfy Mixture-Betweenness.

Revealed Preference and the Subjective State Space Hypothesis

Journal of Mathematical Economics (2019)

This paper provides, for finite sets of choice data, revealed preference characterizations for the additive representations considered in Dekel et al. (2001). For a particular class of data sets, it is shown that the characterizing conditions can be reformulated as nonlinear systems of inequalities for which the existence of solutions can be verified using numerical methods.

Similarity-based mistakes in choice (with Levent, Ülkü)

Journal of Mathematical Economics (2015)

We characterize the following choice procedure. The decision maker is endowed with two binary relations over alternatives, a preference and a similarity. In every choice problem she includes in her choice set all alternatives which are similar to the best feasible alternative. Hence she can, by mistake, choose an inferior option because it is similar to the best. We characterize this boundedly rational behavior by suitably weakening the rationalizability axiom of Arrow (1959). We also characterize a variation where the decision maker chooses alternatives on the basis of their similarities to attractive yet infeasible options. We show that similarity-based mistakes of either kind lead to cyclical behavior. Finally, we reinterpret our procedure as a method for choosing a bundle given a set of individual items, in which the decision maker combines the best feasible item with those that complement it.