Jonathon Carrasco

ADJUNCT PROFESSOR · LONE STAR COLLEGE

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Education

University of Houston *Houston, TX*
M.A. IN ECONOMICS *August 2013 - May 2016*

University of Houston *Houston, TX*
M.S. IN FINANCE *August 2008 - December 2013*

Rice University *Houston, TX*
B.A. IN MATHEMATICAL ECONOMIC ANALYSIS *August 2002 - May 2006*

Teaching Experience

Lone Star College *Cypress, TX*
MICROECONOMICS *January 2014 - Present*
- Face-to-Face: Spring 2014, Summer 2014, Fall 2014, Spring 2015, Summer 2015, Fall 2015, Spring 2016
- Online: Spring 2016, Fall 2016

Lone Star College *Cypress, TX*
MACROECONOMICS *January 2014 - Present*
- Face-to-Face: Summer 2014
- Online: Spring 2015, Fall 2016

University of Houston *Houston, TX*
TEACHING ASSISTANT *August 2008 - May 2013*
- Energy Insurance and Risk Management: Spring 2009, Spring 2010, Spring 2013
- Fixed Income: Spring 2010, Spring 2011, Spring 2012
- Corporate Finance: Summer 2011

' Professional Experience

CBRE *Houston, TX*
RESEARCH DATA ANALYST *September 2016 - Present*
- Synthesizing data and forecasting U.S. commercial property market conditions
- Preparing market reviews
- Updating monthly publications and presentation materials that track the economy and capital markets
- Preparing annual market summaries and assisting with quarterly reporting
- Writing or assisting with the production of specialized studies on topics of current interest

The Methodist Hospital *Houston, TX*
RESEARCH FELLOW *May 2005 - July 2008*
Fellowship to study how patients make medical decisions under severe uncertainty. Developed mathematical models to use biometric data and help patients discover their personal normals and provide feedback to manage chronic disease. Produced "In Context" a biweekly podcast with Dr. Clifford Dacso on current medical news. Published a peer reviewed article on uncertainty in medicine and presented research at conferences in the US and abroad.

Technical Skills

Programming	Matlab • Stata • ArcGIS • LaTeX • Excel Macros and Pivot Tables R • Python • SQL • HTML & CSS
Statistical Expertise	Linear Regressions • Maximum Likelihood Estimation • Logit & Probit Models • ARIMA Models with Trend • GARCH Models • Bayesian Analysis • Unit Root Testing • Markov Chain Monte Carlo Simulation • Identification of Structural Breaks • Regression Discontinuities • Spectral Analysis • Jackknife & Bootstrap Resampling • Sample Size & Power Calculations

Selected Coursework

Economics	Applied Econometrics • DSGE Models • Urban Economics • Monetary Policy • International Monetary Economics • Macroeconomic Modeling & Forecasting
Finance	Options & Futures • Fixed Income Securities • Continuous Time Finance • Financial Management • Financial Econometrics • International Finance & Macroeconomics

Research

A Hedonic Model of Home Prices in Houston *University of Houston*

URBAN ECONOMICS *May 2016*

Used Harris County Appraisal District data along with demographic and neighborhood characteristics obtained from the U.S. Census to build models of single family home prices in Houston.

Drought and the Influence of Water Wells on Crop Selection *University of Houston*

INDEPENDENT RESEARCH *November 2015*

Used USDA satellite data and drought maps to analyze how access to deeper water wells can influence crop selection in drought years.

Revised Expectations and Agricultural Futures Prices *University of Houston*

INDEPENDENT RESEARCH *May 2013*

Extracted USDA forecasts of crop yields to study how updated expectations are incorporated into agricultural futures prices.

Heterogeneous Uncertainties in Cholesterol Management *The Methodist Hospital*

PUBLISHED: INTERNATIONAL JOURNAL OF APPROXIMATE REASONING *2009*

A study to explore the robustness of clinical guidelines used by physicians when managing a patient's cholesterol levels. Demonstrate that strict adherence to guidelines are sometimes, but not always, consistent with the expected utility expressed by a patient.

Poster Presentations

Improving Chronic Disease Outcomes by Technology and Community-based Intervention at Scale *Irvine, CA*

THE FUTURE OF HUMAN HEALTHSPAN CONFERENCE *November 2007*

Robust-Satisficing Decision Making Under Severe Uncertainty Illuminates Patient Choice *Boston, MA*

SOCIETY FOR MEDICAL DECISION MAKING CONFERENCE *October 2006*

Information-Gap in Medical Decisioning *Newcastle upon Tyne, UK*

INFORMATION GAP CONFERENCE AT UNIVERSITY OF NEWCASTLE-UPON-TYNE *September 2005*

Community and Classroom Presentations

An Introduction to the Economics of the US Healthcare System

Houston, TX

University of Houston, Experiencing the Future of Health

January 2008

Understanding the US Healthcare System

Houston, TX

University of Houston, Experiencing the Future of Health

March 2007

Service

2005-2006	**Treasurer,** Rice University – Baker College	*Houston, TX*
2005	**Orientation Week Coordinator,** Rice University – Baker College	*Houston, TX*
2003-2005	**Educational Vice President,** Rice University – Baker College	*Houston, TX*

Honors & Awards

2009	**Clay & Lucy Carter Teaching Excellence Award,** C.T. Bauer College of Business, University of Houston	*Houston, TX*
2008	**Dyer Fellowship for Improving Patient Care Through Research,** The Methodist Hospital	*Houston, TX*
2006	**Philpott Award for Service to Baker College and Rice University,** Rice University	*Houston, TX*
2005	**Finger Fellowship for Sustainable Health,** The Methodist Hospital	*Houston, TX*
2002	**Barbara Jordan Scholar,** Rice University	*Houston, TX*