

# Jonathon Carrasco

ADJUNCT PROFESSOR • LONE STAR COLLEGE

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## Education

### University of Houston

M.A. IN ECONOMICS

Houston, TX

May 2016

M.S IN FINANCE

December 2013

### Rice University

B.A. IN MATHEMATICAL ECONOMIC ANALYSIS WITH HONORS

Houston, TX

May 2006

## Teaching Experience

### Lone Star College

MICROECONOMICS

Cypress, TX

January 2014 - Present

- Face-to-Face: Spring 2014, Summer 2014, Fall 2014, Spring 2015, Summer 2015, Fall 2015, Spring 2016
- Online: Summer 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Summer 2017, Summer 2020, Spring 2021, Spring 2022, Fall 2023, Spring 2024, Summer 2024, Fall 2024, Spring 2025, Summer 2025

### Lone Star College

MACROECONOMICS

Cypress, TX

January 2014 - Present

- Face-to-Face: Summer 2014, Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2019, Spring 2020
- Online: Spring 2015, Fall 2016, Summer 2017, Fall 2017, Spring 2018, Summer 2018, Fall 2018, Spring 2019, Summer 2019, Fall 2019, Spring 2020, Summer 2020, Fall 2020, Summer 2021, Fall 2021, Spring 2022, Summer 2022, Fall 2022, Spring 2023, Summer 2023, Fall 2023, Spring 2024, Summer 2024, Fall 2024, Spring 2025, Summer 2025

### University of Houston

TEACHING ASSISTANT

Houston, TX

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

## Technical Expertise

### App Development

**Languages** Python • R • JavaScript • Stata • Matlab **ETL** SQL • Snowflake • Databricks • Alteryx • FastAPI

**Dashboards** Microsoft Power Apps • Streamlit • Shiny • Tableau • Microsoft Power BI

### Business Intelligence

**Applications** Prophix • Datex • Costar • ArcGIS Business Analyst • Real Capital Analytics

**Reporting** Adobe InDesign • HTML & CSS • Excel Macros and Pivot Tables • ~~ETX~~ **Spatial** ArcGIS • QGIS • Placer.ai

### Machine Learning / AI

Linear Regressions • Maximum Likelihood Estimation • Logit & Probit Models • ARIMA Models with Trend • GARCH Models • Bayesian Analysis • Markov Chain Monte Carlo Simulation • Identification of Structural Breaks • Regression Discontinuities • Spectral Analysis • Jackknife & Bootstrap Resampling • K-means clustering • Neural Networks • Web Scraping

## Selected Coursework

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### Economics

Macroeconomic Modeling & Forecasting • Applied Econometrics • Urban Economics • DSGE Models • Monetary Policy • International Monetary Economics

### Finance

Options & Futures • Fixed Income Securities • Continuous Time Finance • Financial Management • Financial Econometrics • International Finance & Macroeconomics

## Research

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### 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

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### 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

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### 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

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2021	<b>Rice University 15 Year Reunion Committee</b> , Member – Baker College	<i>Houston, TX</i>
2018-2019	<b>CBRE Cares Houston</b> , Chairman – Finance Subcommittee	<i>Houston, TX</i>
2005-2006	<b>Treasurer</b> , Rice University – Baker College	<i>Houston, TX</i>
2005	<b>Orientation Week Coordinator</b> , Rice University – Baker College	<i>Houston, TX</i>
2003-2005	<b>Educational Vice President</b> , Rice University – Baker College	<i>Houston, TX</i>

## Honors & Awards

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