

# Tarek Buhagiar

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## EXPERIENCE:

2019 – Present

**Associate Instructor**, University of Central Florida Full time instructor for the Department of Economics. Design, develop and facilitate 2 REAL classes, Quantitative Business Tools II (QMB 3200) and Microeconomics (ECO 2013).

2018 - 2019

**Instructor**, University of Central Florida Full time instructor for the Department of Economics. Design, develop and facilitate 2 REAL classes, Quantitative Business Tools II (QMB 3200) and Microeconomics (ECO 2013).

2015 – 2018

**Lead Instructor**, University of Central Florida

Full time lead instructor for the Managerial Economics class for the Integrated Business Program. The Lead Faculty Member promotes the program within UCF and to the surrounding community. The Lead is also responsible for developing and maintaining course content and works with other faculty in course/program development.

2005 – 2014

**Instructor**, University of Central Florida

Full time instructor for the Department of Economics (Central Region). Classes taught: Quantitative Tools I (ECO 3401), Quantitative Tools II (ECO 3411), Money and Banking (ECO 3223), Managerial Economics (ECP 4703), Labor Economics (ECP 3203), Macroeconomics (ECO 2013), Microeconomics (ECO 2023) and Business Statistical Concepts and Methods (ECO 6405).

Fall 2010 - Present

**Adjunct Instructor**, Valencia Community College

Classes taught: ECO 2013 and ECO 2023

Summer 2006 and Summer 2007

**Adjunct Instructor**, Keiser University

Classes taught: QMB 3600 and STA 3060

2001 - 2005

**Visiting Instructor**, University of Central Florida

Full time visiting instructor for the Department of Economics. Taught the two required quantitative classes for third year Business majors: Quantitative Tools I (ECO 3401) and Quantitative Tools II (ECO 3411). Also taught the elective, Money and Banking (ECO 3223).

1998 - 2001

**Adjunct Instructor**, University of Central Florida

Classes taught: Quantitative Tools I and Quantitative Tools II

2001 - 2002

**Consultant SAS Developer-Statistician**, Daytona Beach Community College

1999 - 2001

**Research Analyst II**, Daytona Beach Community College

Responsible for the statistical and analytical integrity of IRE data. High degree of professional responsibility in planning and directing the department's projects and personnel. Worked collaboratively with the Director to undertake strategic data requests. Supported college-wide planning

processes, including the college strategic plan for program review, by providing facilitation, data support, and analyses to academic and administrative units. Developed and implemented numerous aspects of the college's relational database utilizing expertise in data mining and software programming. Developed web site and an institutional data warehouse for planning and evaluation purposes. Performed research in support of key educational decisions. Provided technical foundations and tailored data structures and other forms of implementation for the college's institutional research office system. Maintained specialized databases to enhance speed of response to requests for information required for decision-making. Created web report using SAS ODS. Developed and maintained enrollment models to provide projections for enrollment management. Conducted studies and research programs on student enrollment, retention and completion and cost projections. Helped marketing department in direct marketing initiatives. Provided statistical analysis and data mining for college management and planning. Provided modeling and analysis support for external requests such as accountability, assessment and performance measurement. Performed economic analysis of Volusia and Flagler County. Performed forecasting analysis on the students attending DBCC. Built several databases to better track registrations. Responsible for the design and interpretation of the results of several surveys. Created reports using COGNOS (Impromptu, Transformer and PowerPlay), Crystal and SAS as front-end to Informix database. Extensive use of Excel and Visual Basic, SAS, Access, Cognos and Power Point.

1998 - 1999

**Credit Policy Analyst**, BANCO POPULAR N.A., Florida US Cards Division

Responsible for the management and oversight of risk analysis team for the acquisition, presentation and implementation of statistical models. Constructed econometric models to identify behavioral patterns for the marketing department using SAS. Built logistic models used in forecasting the response rates of marketing initiatives. Used Survival Analysis in analyzing charged-offs and bankruptcies. Improved on credit criteria given by Equifax and developed an ad-hoc type for our operation. Helped in retention initiatives by producing ad-hoc reports for the VP of the Marketing to better gather information on our customer base. Performed on-going testing, tracking and analysis of credit operations and strategies. Formulated recommendations to senior management that reduced credit review time and enhanced the risk profile of our loan portfolio. Constructed first database of cardholders using SAS.

1997

**Graduate Teaching Assistant**, University of Central Florida

Graduate Teaching Assistant for Quantitative Tools II.

Tutor for Microeconomics and Macroeconomics.

1985 - 1990

**Senior Financial Analyst**, Real Estate Company Fiore, Inc. Milan, Italy

Prepared financial statements. Actively participated in all phases of external acquisitions including legal analysis, account level pricing and market evaluation. Traveled extensively for business in Europe and parts of Central America. Presented several projects to banks for investment funding. Duties included overseeing the preparation of income statements, payroll and bids. Youngest junior analyst promoted to Senior Analyst. Managed department of junior financial analysts.

## EDUCATION:

UNIVERSITY OF CENTRAL FLORIDA Orlando, FL  
**Applied Mathematics Graduate Certificate.**  
Earned 6 Graduate hours in Mathematics. GPA: 4.0.

UNIVERSITY OF CENTRAL FLORIDA Orlando, FL  
**Data Mining Graduate Certificate Program.** Fall 2002.  
Extensive use of SAS Enterprise Miner version 4.0 for completion of many projects. Good knowledge of Tree and Neural Networks. Earned 19 Graduate hours in Statistics. GPA: 3.928.

UNIVERSITY OF FLORIDA Gainesville, FL  
**Ed.D Educational Leadership Program.** Summer 2001  
Attended 1 semester. GPA: 4.0.

UNIVERSITY OF CENTRAL FLORIDA Orlando, FL  
**Master of Arts in Applied Economics.** December 1997  
Econometric final thesis. GPA: 3.909/4.0

FLORIDA INTERNATIONAL UNIVERSITY Miami, FL  
**Bachelor in Business Administration, Finance.** December 1995  
Graduated Magna Cum Laude. GPA: 3.78/4.0

MIAMI DADE COMMUNITY COLLEGE Miami, FL  
**Associate in Arts.** December 1992  
Graduated with honors. GPA: 3.52/4.0

## TECHNICAL TRAINING:

### **SAS Institute**

Attended: SAS Macro Language, Advanced SAS Programming Techniques and Efficiencies, Logistic Regression Modeling, SQL Processing with the SAS System, Processing Database and Spreadsheet Data with SAS/ACCESS software, ANOVA and Regression.

### **Seminar**

University of Florida. Survival Analysis 1999  
University of Florida. Time Series 2001

## PUBLICATIONS:

### Refereed Journal Articles

Buhagiar, T. Morin, J. & Tamberelli, F. Educating business integrators with a computer-based simulation game in the flipped classroom *Journal of Education for Business: Vol 0, No 0* <https://www-tandfonline-com.ezproxy.net.ucf.edu/doi/full/10.1080/08832323.2019.1613951> (Published, 2019)

Buhagiar, T., Leo, C., Does gamification improve academic performance? *Journal of Instructional Pedagogies*, 14, (Published, May 2018).

Buhagiar, T., Quantitative easing ECB style – Is it working? *Research in Business and Economics Journal* (Published, April, 2017).

Buhagiar, T., Potter, R., A comparison between academic performance of native and transfer students in a quantitative business course. *Journal of Instructional Pedagogies*, 14, (Published, April 2014). <http://www.aabri.com/manuscripts/141848.pdf>.

Buhagiar, T., Fiscal Union or Bust. *Research in Business and Economics Journal* (Published, August, 2012). <http://www.aabri.com/manuscripts/121255.pdf>

Buhagiar, T., Credit Easing and the recession 2007- 2009 – Was it worth it? *Research in Business and Economics Journal* (Published, August, 2011). <http://www.aabri.com/manuscripts/11903.pdf>

Buhagiar, T., Potter, R., To Stream or not to Stream in a Quantitative Business Course. *Journal of Instructional Pedagogies/American and Business Research Institute* (Published, June, 2010). <http://www.aabri.com/manuscripts/09417.pdf>

### Study Guides

Tarek Buhagiar, *Statistical Methods for Business Students. A Study Guide to Basic Statistical Analysis Using Microsoft Excel*. Aardvark Global Publishing Company LLC, August 2006.

## EDITORIAL AND REVIEW ACTIVITIES:

### PAPERS PRESENTED:

Buhagiar, T. (Presenter & Author), Leo, C. (Presenter & Author)  
Does gamification improve academic performance?; AABRI Conference (St. Augustine 2018).

Buhagiar, T. (Author Only), Potter, R. (Presenter & Author)  
A Comparison of Math Prerequisites for ECO 3401, Quantitative Business Tools I; AABRI Conference (Las Vegas, 2012).

Buhagiar, T. (Presenter & Author), Potter, R. (Presenter & Author)  
A comparison of student achievement in ECO 3401 (Quantitative Business Tools I) delivered through video streaming versus face-to-face lecture; AABRI Conference (Orlando 2009).

Invited Manuscript Reviewer, "Mathematics with Applications, 9e by Lial/Hungerford/Holcomb," Pearson Arts & Sciences, 1 review. (April 14, 2008 - May 3, 2008).

## DEPARTMENTAL SERVICES:

- Integrated Business Program Hiring Committee , 2015 – 2018. Member of research committee to vet and interview candidate and provide hiring recommendations to the director.
- Mentoring junior faculty member – 2016 – 2018.
- Recruit professionals to present at the Exchange, 2016 - 2018
- Mentor for the Student Mentoring Program for the Integrated Business Program, 2016 – 2018
- University Master Planning Committee, 2016 - Present
- Instructor-Lecturer Promotion Committee: 2011-2012, 2012-2013
- TIPS Committee: 2009-2010, 2010-2011
- ECO 3401 & 3411: 2001-2014

## DEVELOPMENT ACTIVITIES:

Workshops Attended Faculty Center for Teaching and Learning

- Technology Outside the Box with Teaching Squares – January, 2017.
- Team-Based Learning: How to Apply LB to your Course Regardless if Size – February, 2017.
- Bridging the Skills Gap - February, 2017.
- Using Game Design Techniques to Improve Student Engagement and Success – February, 2017.

Attended Winter Faculty Development Conference 2019 UCF – December 11-13

Attended Winter Faculty Development Conference 2015 UCF -December 16-18

Attended Summer Faculty Development Conference 2015 UCF– Teaching with Technology Cohort, May 11-14.

Completed Teaching online@ucf IDL 6543Spring Semester 2015.

In this learning course, participants engage in seminars, labs, instructional design consultations, and web-based activities to design a fully online/blended learning course and to demonstrate competencies associated with successful online teaching.

<https://credly.com/badge/cf9d15f52>

Enrolled: Digital Professor Certification (Valencia College). Earned 28 Professional Development Hours. Courses Taken:

- Boot Camp for Online Instructions, - February, 2011
- Universal Design for Online Learning - June, 2012
- Developing Interactive Web-Based Courses – September, 2012
- Building Online Learning Communities – October, 2012
- Authentic Learning Assessments – September, 2014

SoTL Research Project, Spring 2009 (Workshop Series)

- Reviewed and updated learning outcomes for ECO3401 and created new pool of final exam questions for the Department.

Successfully completed the refresher IRB training for the Collaborative Institutional Training Initiative (CITI). December 19, 2016.

Successfully completed the IRB training for the Collaborative Institutional Training Initiative (CITI). March 1, 2009.

Seminar, "Tips on Becoming a Better College Teacher," AACSB International, Orlando, FL. June 6, 2007-June 8, 2008.

Attended Conference, "Faculty Conference on Learning," AACSB International Conferences, Orlando, FL. June 6, 2007-June 8, 2007.

Assessment Workshop Interdisciplinary Studies at UCF. May 2006.

- One of four members responsible for reviewing, evaluating and creating new learning objectives for ECO 3411. Created new pool of final exam questions for the Department based on input from the departments within the College of Business Administration.

#### **AWARDS AND HONORS:**

Promoted Associate Instructor, 2019

The University of Central Florida Teaching Incentive Program (UCF-TIP) was established as a new initiative in 2000-2001.

Criteria for Awards: criteria include teaching quality and effectiveness, continuing commitment to instruction, consideration of class size (large versus small), and innovation and creativity in instruction, UCF. May 9, 2007.

#### **SKILLS:**

Bilingual: Italian/English. Limited understanding of Spanish.

Computer proficiency in Windows, Microsoft Office (Word, Excel, Access, PowerPoint), COGNOS (PowerPlay, Transformer and Impromptu), Crystal Reports Professional. Knowledge of statistical software Minitab, Limdep and SAS. Programming knowledge in Visual Basic, SQL and SAS.