

Matthew Brigida

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EDUCATION:

Florida Atlantic University, Boca Raton, FL

- Ph.D. in Finance, December 2009, GPA: 3.82/4.0
 - Dissertation: “Essays on the Causes and Consequences of Information Leakages Prior to Merger and Acquisition Announcements”
- MS Economics, 2004, GPA: 3.8/4.0
 - Thesis: “Offshoring and Wage Convergence”
- Additional Coursework: 12 graduate and 33 undergraduate Mathematics credit hours, GPA: 3.84/4.0
- Honor Societies: Phi Kappa Phi, Omicron Delta Epsilon (Economics).

Loyola University of Maryland, Baltimore, MD

- BBA, 2000.

EXPERIENCE:

Clarion University of Pennsylvania, Clarion, PA

8/2009-Present

Associate Professor of Finance (tenured)

- Courses Taught: Portfolio Theory; Investments; Multinational Finance; Financial Markets and Institutions; Corporate Finance; Managerial Finance (MBA course).
- Three grants awarded: (1) for research on the determinants of Markov-regime switching in the natural gas and crude oil cointegrating relationship; (2) for research into the determinants of asymmetric volatility in crude oil (WTI) futures; (3) to reconstruct the portfolio theory course using R code to allow fast theory and strategy testing.
- Created a MySQL database relating hourly PJM electricity prices and FTR auction values by network node.

NextEra Energy, NextEra Energy Resources, Juno Beach, FL

2/2009-7/2009

Business Management Analyst/Consultant

- Calculated the real option value of natural gas fired generation assets to assist electricity forward sale decisions and set asset optimization budgets. The pricing was done by applying Monte Carlo to a spread option where the two underlyings were mean-reverting stochastic processes with price proportional volatility.
- Determined profitability drivers of wind farms.
 - Software used: SAP ERP Financials, Oracle databases, R, Excel, Access, some SQL query writing.

Florida Atlantic University, Boca Raton, FL

1/2006-5/2009

Finance Instructor & Research Assistant

- Modeled time series and volatility (including ARCH/GARCH models with endogenous regime-switching and a GJR leverage effect), and implemented conditional autoregressive Value-at-Risk .
- Priced options with Stochastic Volatility models (including Heston calibration).

World Omni Financial Corp. (Southeast Toyota Finance), Deerfield Beach, FL

12/2004-1/2006

Senior Modeling Analyst

- Created a nested Logit model to estimate delinquency and default probabilities for multi-billion dollar portfolios of auto loans and leases.
- Priced the option sold in our auto leases.
 - Software used: SAS, Excel, Access, SQL query writing.

TECHNICAL SKILLS:

Software: R, SAS, SQL (MySQL), Advanced Excel, Access, Word, SAP ERP, C++, UNIX/Linux, L^AT_EX, Emacs
Databases/Interfaces: Oracle, WRDS, CRSP, Datastream, SDC Platinum, Compustat, TAQ data

PUBLICATIONS & SOFTWARE DEVELOPMENT:

- [EIAdata](#) R package available on [CRAN \(stable\)](#) and [Github \(development\)](#).
- [The Switching Relationship between Natural Gas and Crude Oil Prices](#), *Energy Economics*, 2014. Also won the *IAEE/USAAE Best Working Paper for 2012*.
- [An Information Based Model of Target Stock Price Runup in the Market for Corporate Control](#), *Quantitative Finance*, 2013.
- [Sources of Target Stock Price Runup Prior to Acquisitions](#), *Journal of Economics and Business*, 2012.
- [Information Leakages Prior to 13D Filings](#), *Journal of Financial and Economic Practice*, 2012.
- [The Option in Auto Leases](#), *Pennsylvania Economic Review*, 2012.
- [Volatility in Electricity Spread Options](#), revise and resubmit, *Engineering Economics*.
- [A GARCH Analysis of the Volatility in Country Indices](#), *Intl. Journal of Global Management Studies Professional*, 2009.
- [Causes of Asymmetric Volatility in Oil Futures](#), under review.
- [Almost Stochastic Dominance: A Penchant for Risk](#), presented at the 2007 FMA conference.