

EDUCATION

University of Maryland University College

- Master of Science in Computer Systems Management

Adelphi, MD
December 2007

Georgia State University

- Bachelor of Science in Economics

Atlanta, GA
August 1993

MIT, Carnegie Mellon University, San Diego State University, BTA, and Edx

- Numerous undergraduate and graduate courses in advanced mathematics, applied statistics, and economics.
- Blockchain Training Alliance certificate: [Ethereum Developer Course \(BTA\)](#)
- Edx verified certificates: [Intro to C++\(Microsoft\)](#), [Pricing Options with Mathematical Models\(Caltech\)](#).

EXPERIENCE

New York Life Insurance Company

Senior Associate

New York, NY
2008-present

- Various duties including serving as the lead illustration team associate in the introduction of the industry leading billion dollar deferred income annuity product and the successful conversion and introduction of 22 annuity products into a new software system.

United States Army

Infantry

Fort Hood, TX
2002-2008

- Responsible for the supervision, training, and mentoring of subordinate soldiers.

Federal Reserve Bank of Atlanta

Economic Analyst II

Atlanta, GA
1996-2001

- Reviewed and developed reports on regional financial and economic activity for internal analysis, as well as for publication in the regional and national press, including “Beige Book” preparation.

SELECTED PUBLICATIONS

- The Signal, Entropic Finance, and the Digital Economy (forthcoming book, early 2019).
- [The Relationship between the US Economy’s Information Processing and Absorption Ratios: Systematic vs Systemic Risk](#), *Entropy*, 20, 662 (2018).
- [Entropy, Information Processing Cycles, and Forecasting Peaks and Troughs IJPMAT: Special Issue on Econophysics and Finance 7\(1\), 77-90 \(2019\)](#).
- [The Entropic Linkage between Equity and Bond Market Dynamics](#), *Entropy*, 19, 292 (2017).
- [Flash Crashes: The Role of Information Processing Based Subordination and the Cauchy Distribution in Market Instability](#), *Journal of Insurance and Financial Management*, Vol. 2, No. 7 (2016).
- [Venture Capital: Emerging Force in the Southeast](#), *Economic Review (Federal Reserve Bank of Atlanta)*, 4th Quarter 1998, vol. 83, number 4.
- [Common Trends and Cycles and the Structure of Florida’s Economy](#), *Economic Review (Federal Reserve Bank of Atlanta)*, 3rd Quarter 1997, vol. 82, number 3.

PATENT APPLICATION

- [System and Method of Interferometric Securities Trading, Event Detection, and Communication](#). US 2016-0012531 A1 01-14-2016.

VOLUNTEER/OTHER

- Wounded Warrior Foundation fundraiser and hero ride participant.
- [Violinist in the critically acclaimed Opal Foxx Quartet, band’s album produced by REM’s Michael Stipe](#).
- Bayside United Methodist Church, Board of Trustees 2015-2017.
- Finisher of Ironman New Zealand 2000, Great Floridian Triathlon 1998 (“Toughest Iron Distance Triathlon”).