Arnav A. Sheth, Ph.D.

Contact Information

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Summary

My research involves applying novel quantitative techniques to areas in finance and economics, with a special interest in incorporating behavioral aspects. My doctorate was with the late mathematician, Larry Shepp and involved devising a numerical technique to solve a certain class of stochastic control problems.

Currently, I am working on testing market efficiency in the foreign exchange markets, modeling executive compensation schemes with stochastic processes, and portfolio optimization models involving downside risk. My Erdös number is 2. More about me at arnavsheth.net.

Education

Ph.D., Quantitative Finance — 2007
Rutgers Business School, Newark and New Brunswick, New Jersey
Advisor: Larry Shepp

M.B.A., Finance — 2007
Rutgers Business School, Newark and New Brunswick, New Jersey

M.A., Experimental Economics — 2004
Rutgers University, New Brunswick, New Jersey
Advisor: Barry Sopher

B.A., Economics-Mathematics and Philosophy — 2000
Lawrence University, Appleton, Wisconsin

Certification

Level II Candidate, Chartered Financial Analyst (CFA) Program

Experience

Associate Professor of Finance — 2014 to Present
Graduate Business, Saint Mary's College of California

Program Director — 2014 to Present
MS in Financial Analysis and Investment Management (MS-FAIM) Program,
Saint Mary's College of California

Assistant Professor of Finance — 2009 to 2014
Graduate Business, Saint Mary's College of California

Visiting Assistant Professor in Economics — 2010
Haas School of Business, University of California, Berkeley

Senior Consultant (Economist) — 2008 to 2009
Global Transfer Pricing, Deloitte Tax, LLP

Lecturer in Economics — 2008 to 2009
University of California, Berkeley

Associate (part-time) — 2008
StatAssist.com

- Statistical assistance and guidance on Ph.D. dissertations.

Research Associate 2004 to 2005

Stevens Institute of Technology, Hoboken, New Jersey

- Analysis of the innovation process in firms (funded by an NSF grant).

Graduate Assistant 2002 to 2004

School of Communication, Information and Library Sciences, Rutgers University

- Analysis and pattern recognition of brain images (funded by an NSF grant).

PUBLICATIONS

A. Sheth (2016). The Carrot: Executive Compensation, Risk-Taking and Innovation. *Advances in Quantitative Analysis of Finance and Accounting*, (forthcoming).

J. Kale and A. Sheth (2016). Power-Log Optimization and Positively Skewed Option Returns Raise Portfolio Performance and Reduce Risk. *Journal of Investing*, (forthcoming).

N. Lam and A. Sheth (2016). Too Much of a Good Thing: The Tipping Point of Employee Voice. *Submitted for review.*

J. Kale and A. Sheth (2015). Downside Loss Aversion and Portfolio Growth. *Journal of Finance and Bank Management*, 3(1):1-16.

A. Sheth. (2012). Hiring, Firing and Infighting: A Tale of Two Companies. *Computational Economics*, 40(2):131-149.

A. Sheth, L. Shepp, and O. Palmon. (2011). Risk-taking, Financial Distress and Innovation. *Academy of Business Journal: Special Issue on the Global Debt Crisis*, 1:5-18.

A. Sheth, and B. Sopher. (2006). A Deeper Look at Hyperbolic Discounting. *Theory and Decision*, 60:219-255.

WORKING PAPERS

A. Sheth and K. Teeple (2016). Leveraging Herd Behavior in Foreign Exchange Markets. *Working Paper.*

J. Kale and A. Sheth (2014). Power-Log Portfolio Optimization for Maximizing Portfolio Growth and Controlling Tail Risk. *Working Paper.*

A. Duncan and A. Sheth (2014). Markov Chain Modeling for Volatility Regimes. *Working Paper.*

A. Sheth (2013). A Stochastic Control Model for Agency Costs. *Working Paper.*

BOOKS

Sheth, Arnav (2011). *Optimal Operating Strategies Under Stochastic Cash Flows.* Lambert Academic Publishing GmbH & Co. KG.

BOOK CHAPTERS

B. Sopher and A. Sheth (2007). A deeper look at hyperbolic discounting. In M. Abdellaoui, editor, *Uncertainty and Risk: Mental, Formal Experimental Representations*, Volume 41, pages 125150. Springer.

PROCEEDINGS

A. Sheth, L. Shepp, and O. Palmon (2011). Risk-taking, financial distress, and innovation. In *Proceedings of the World Congress on Engineering 2011.* World Congress of Engineering, International Association of Engineers (IAENG), July 2011.

SELECTED TALKS

Leveraging Herd Behavior in Foreign Exchange Markets. International Conference on Operations Research (ICOR). Havana, Cuba. March 2016.

Power-Log Portfolio Optimization for Maximizing Portfolio Growth and Controlling Tail Risk. INFORMS Minneapolis, MN. October 2013.

The carrot: Rewarding Bad Managers. Western Economic Association (WEA). San Francisco, CA. June 2012.

Rewarding Bad Managers and Innovation. Institute for Operations Research and Management Science (INFORMS). Raleigh, NC. November 2011.

Risk-taking, Financial Distress and Innovation. World Congress of Engineering. London. July 2011.

Capturing the Chaos: Measuring Market Volatility. Pillai Institute of Management Studies. Mumbai. June 2011.

Gambling When Broke: A Model for Optimal Managerial Behavior Under Financial Distress. Society for Industrial and Applied Mathematics Financial Mathematics and Engineering (SIAM-FME). San Francisco, CA. November 2010.

A Numerical Method for Stochastic Control with Applications to Finance. Society for Industrial and Applied Mathematics Optimization (SIAM Optimization). Boston, MA. May 2008.

Optimal Operating Strategies Under Stochastic Cash Flows. Institute for Operations Research and Management Science (INFORMS). Seattle, WA. November 2007.

A Deeper Look at Subjective Discounting. FUR XI Conference. Cachan, France. July 2004.

Media

KGO Radio Causes of volatility in US Markets in August 2015. 2015

Money's Edge Ripple versus Bitcoin and bank adoption. 2015

Christian Science Monitor IRS Ruling of bitcoin as property. 2014

CBS News Mt.Gox collapse and future of bitcoin. 2014

KTVU News Amazon.com CA sales tax and its stock price. 2012

ABC News Facebook initial public offering. 2012

Hobbies

Distance running, mountaineering/climbing, open water swimming, flying/aviation