Dr. DEVIKA ARUMUGAM

(July 2022)

RESEARCH AREAS

Algorithmic Trading, High-Frequency Finance, Market Microstructure, Quantitative

and Computational Finance

EDUCATION Indian Institute of Technology Madras, India

> Ph.D., Dec. 2016 - Sep. 2021 Cumulative GPA: 8.8/10

Thesis Title: A Game of Hide-And-Seek among Algorithmic Traders: Causal Links

with Market Quality

Advisor: Dr. P. Krishna Prasanna

Indian Institute of Technology Madras, India

Five year Integrated Master's in Economics, Jul. 2010 - Jul. 2015

Cumulative GPA: 7.82/10

Thesis Title: Economic Growth and Fiscal Deficit: Evidence from India

Advisor: Dr. Anup Kumar Bhandari

RESEARCH **EXPERIENCE** Indian Institute of Technology Madras, India

Post-Doctoral Equivalent Fellow, Jun. - Sep. 2021 Project Title: Algorithmic Trading

Advisor: Dr. P. Krishna Prasanna

Goizueta Business School, Emory University, USA

Fulbright-Nehru Doctoral Fellow and Visiting Researcher, Aug. 2019 - Jul. 2020

Project Title: High-Frequency Trading

Advisor: Dr. Tarun Chordia

WORK **EXPERIENCE** Great Lakes Institute of Management Chennai, India

Assistant Professor (Finance), Oct. 2021 - Jun. 2022

Indian Institute of Management Indore, India

Assistant Professor (Finance and Accounting), Jul. 2022 -present

JOURNAL

Arumugam, Devika, and P. Krishna Prasanna. "Commonality and contrarian PUBLICATIONS trading among algorithmic traders." Journal of Behavioral and Experimental

Finance (2021): 100495. DOI: https://doi.org/10.1016/j.jbef.2021.100495

(ABDC: A) (Job market paper)

Arumugam, Devika, and P. Krishna Prasanna. "A Game of Hide-and-Seek between Proprietary and Buy-Side Algorithmic Traders: Causal links with Market Quality." Applied Economics (2021). DOI: https://doi.org/10.1080/00036846.

2021.1907290 (ABDC: A)

HONORS AND **FELLOWSHIPS** Fulbright-Nehru Doctoral Research Fellowship, United States - India Educa-

tional Foundation (USIEF) and Fulbright Commission, 2019

Junior Research Fellowship and National Eligibility Test, University Grants Commission, Government of India, 2015

Senior Research Fellowship, University Grants Commission, Government of India, 2018

Post Doctoral Equivalent Fellowship, Indian Institute of Technology Madras, 2021

UNDER REVIEW

Arumugam, Devika, P. Krishna Prasanna, Rahul R Marathe. Do Algorithmic Traders Exploit Volatility? (Under Review with Journal of Behavioral and Experimental Finance)

Arumugam, Devika. Stealth-trading in Odd Lots: Do Algorithmic Traders Move Prices? (Under Review with Applied Economics)

WORKING PAPERS

Arumugam, Devika. Algorithmic Traders' High-Frequency Profitability and Intraday Trading Behavior.

Arumugam, Devika. Algorithmic Trading and Intraday Tail Risk.

CONFERENCES Presented paper titled, When do Algorithmic Traders Make or Take Liquidity? Evidence from Indian Interest Rate Futures. at the 9th International Conference on Futures and Other Derivatives (ICFOD) Virtual, Dec. 5 2020.

> Presented paper titled, Do Algorithmic Traders Exploit Volatility? at the DoMS Research Symposium, 2021, Chennai, India, Mar. 19 2021.

> Presented paper titled, Algorithmic Trading and Volatility: A Chicken-and-Egg problem at the 31st International Trade and Finance Association Annual Conference, Virtual, May 28 2021.

WORKSHOPS/ **PROGRAMS** ATTENDED

Fulbright Enrichment Seminar, 2020 Technology and Innovation: The Entrepreneurial Landscape of Silicon Slopes held at Salt Lake City, Utah, USA (Jan. 30 to Feb. 2, 2020).

Indian Institute of Management Ahmedabad (IIMA), Doctoral Summer School, 2018 held at IIMA, India (Apr. 1 to 5, 2018).

Certificate Program on Frontiers of Development Research held at the Institute for Financial Management and Research, Chennai, India (Dec. 3 to 5, 2016).

IN MEDIA

How Algorithmic Traders Put An Impact On Stock Market: IIT-Madras Study, NDTV, on 01.17.2022. (click here)

SOFTWARE **SKILLS**

R, PYTHON, STATA, EVIEWS, SPSS, LATEX