



**Lakshith WAGALATH**  
**Ph.D. in Applied Mathematics**  
**Associate Professor, Finance**

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## **EDUCATION**

- 2013** Ph.D. in Applied Mathematics, University Pierre et Marie Curie (Paris VI), France
- 2009** Master of probability and finance, University Pierre et Marie Curie (Paris VI), France
- 2008** Master in mathematics, Ecole Polytechnique Paris, France
- 2007** Bachelor in mathematics and physics, Ecole Polytechnique Paris, France

## **RESEARCH INTERESTS**

Finance

## **PROFESSIONAL EXPERIENCE**

### **ACADEMIC:**

- 2012 - 2012** Assistant Professor, ESILV, La défense, France
- 2011 - Present** Teaching Assistant, IÉSEG School of Management, Lille, France
- 2011 - 2011** Teaching Assistant, Lycée Stanislas, Paris, France
- 2007 - 2007** Teaching Assistant, Lycée Louis Le Grand, Paris, France

### **PROFESSIONAL:**

- 2010 - 2011** Consulting, CA Cheuvreux, Paris, France

## **COURSES TAUGHT**

- Bond markets and instruments, Msc in finance
- Finance fundamentals, Grande école (bachelor cycle)
- Finance research seminar, Grande école (master cycle)
- Fixed-income ii: valuation and risk, Grande école (master cycle)

- Options & futures ii:pricing, Grande ecole (master cycle)
- Options, futures and swaps, Msc in finance
- Systemic risk, Grande ecole (master cycle)

## INTELLECTUAL CONTRIBUTIONS

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### Papers in refereed journals

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#### Published

- Wagalath L., Grasselli M., (2020), VIX VERSUS VXX: A JOINT ANALYTICAL FRAMEWORK, *International Journal of Theoretical and Applied Finance*, 23(5), pp. 1-39
- Braouezec Y., Wagalath L., (2019), Strategic fire-sales and price-mediated contagion in the banking system, *European Journal of Operational Research*, 274(3), pp. 1180-1197
- Braouezec Y., Wagalath L., (2018), Pour des stress-tests bancaires réglementaires plus transparents, *Revue Banque*, 818, pp. 50-54
- Braouezec Y., Wagalath L., (2018), Risk-based Capital Requirements and Optimal Liquidation in a Stress Scenario, *Review of Finance*, 22(2), pp. 747-782
- Wagalath L., Zubelli J., (2018), A liquidation risk adjustment for value at risk and expected shortfall, *International Journal of Theoretical and Applied Finance*, 21(2), pp. 21
- Wagalath L., (2017), Lost in contagion? Building a liquidation index from covariance dynamics, *International Journal of Theoretical and Applied Finance*, 20(1), pp. 26
- Braouezec Y., Wagalath L., (2016), Evaluation du risque systémique bancaire, *Banque & Stratégie*, 346(avril), pp. 36-42
- Cont R., Wagalath L., (2016), Fire sale forensics: measuring endogenous risk, *Mathematical Finance*, 26(4), pp. 835-866
- Cont R., Wagalath L., (2016), Institutional investors and the dependence structure of asset returns, *International Journal of Theoretical and Applied Finance*, 19(2), pp. 1650-10 (37 pages)
- Wagalath L., (2016), Feedback effects and endogenous risk in financial markets, *Finance*, 37(2), pp. 39-74
- Wagalath L., Cont R., (2016), Risk Management for Whales, *Risk*, 2016(June), pp. 79-82
- Wagalath L., (2014), Modeling the rebalancing slippage of leveraged ETFs, *Quantitative Finance*, 14(9), pp. 1503-1511
- Cont R., Wagalath L., (2013), Running for the exit: distressed selling and endogenous correlation in financial markets, *Mathematical Finance*, 23(4), pp. 718-741

### Communications in refereed conferences

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#### International

- Wagalath L., (2016), *Lost In Contagion: Building a liquidation index from covariance dynamics* Asian Quantitative Finance Conference, Osaka, Japan
- Wagalath L., (2016), *Risk-Based Capital Requirements and Optimal Liquidation in a Stress Scenario* SIAM Conference on Financial Mathematics, Austin, USA
- Wagalath L., (2015), *Institutional Investors and the Dependence Structure of Asset Returns* MFPDE, New-Brunswick, USA
- Wagalath L., (2015), *Lost In Contagion: Building a liquidation index from covariance dynamics* Research In Options, Rio, Brazil
- Wagalath L., (2014), *Institutional investors and the dependence structure of asset returns* Research In Options, Rio, Brazil

Wagalath L., (2014), *Institutional investors and the dependence structure of asset returns* SIAM, Chicago, USA

Wagalath L., (2012), *Fire sales forensics: measuring endogenous risk* Research in Options 2012, Rio de Janeiro, Brazil

Wagalath L., (2012), *Running for the exit: distressed selling and endogenous risk in financial markets* SIAM conference on financial mathematics, Minneapolis, USA

Wagalath L., (2011), *Fire sales forensics: measuring endogenous risk* CFE, London, United Kingdom

Wagalath L., (2011), *Running for the exit: distressed selling and endogenous risk in financial markets* ICIAM, Vancouver, Canada

## **Other conference and seminar presentations**

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### **International**

Wagalath L., (2017), *Institutional Investors and the Dependence Structure of Asset Returns* Fields Institute Quantitative Finance Seminar, Toronto, Canada

Wagalath L., (2017), *Risk Management for Whales* Winter School on Systemic Risk, Lausanne, Switzerland

Wagalath L., (2016), *Risk-Based Capital Requirements and Optimal Liquidation in a Stress Scenario* Research in Options, Rio, Brazil

Wagalath L., (2013), *Fire sales and systemic risk* Bank of England seminar, London, United Kingdom

Wagalath L., (2013), *Fire sales and systemic risk* Federal reserve board seminar, Washington, USA

### **Case studies**

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Braouezec Y., Wagalath L., (2017), *Financial consolidated statements and capital ratios: The case of BNP Paribas, The Case Centre*, case study 117-0071-1, teaching note 117-0071-8

Wagalath L., (2016), *Understanding leveraged exchange-traded funds and their tracking-error, Case Centre*, case study 116-0001-1, teaching note 116-0001-8, teaching note supplement 116-0001-4

Wagalath L., (2016), *Implied volatility on the S&P 500: VIX and futures on the VIX, Case Centre*, case study 116-0004-1, teaching note 116-0004-8, teaching note supplement 116-0004-4

Wagalath L., Braouezec Y., (2016), *Understanding regulatory capital requirements for banks, The Case Centre*, case study 116-0016-1, teaching note 116-0016-8

Wagalath L., Braouezec Y., (2016), *Understanding the leverage ratio constraint of Basel 3, The Case Centre*, case study 116-0019-1, teaching note 116-0019-8

Wagalath L., (2016), *Trading implied volatility via exchange-traded notes: the case of VXX, The Case Centre*, case study 116-0031-1, teaching note 116-0031-8

Wagalath L., (2016), *Liquidation-adjusted value-at-risk, The Case Centre*, case study 116-0034-1, teaching note 116-0034-8

Wagalath L., (2016), *Introduction to financial crises and systemic risk, The Case Centre*, case study 116-0049-1, teaching note 116-0049-8

Wagalath L., (2016), *Direct contagion in financial markets, The Case Centre*, case study 116-0055-1, teaching note 116-0055-8

Wagalath L., (2016), *Fire sales and price-mediated contagion in financial markets, The Case Centre*, case study 116-0069-1, teaching note 116-0069-8

Wagalath L., (2016), *Understanding forward/future contracts and options, The Case Centre*, case study 116-0082-1, teaching note 116-0082-8

Wagalath L., (2016), *Presenting benchmark payoffs in the derivatives market and their practical use, The Case Centre*, case study 116-0083-1, teaching note 116-0083-8

Braouezec Y., Wagalath L., (2016), *Understanding the methodology for assessing the systemic importance of global systemically important banks (G-SIB)*, *The Case Centre*, case study 116-0093-1, teaching note 116-0093-8

Wagalath L., Braouezec Y., (2016), *Time value of money and pricing of bonds and stocks*, *The Case Centre*, case study 116-0102-1, teaching note 116-0102-8

Wagalath L., Braouezec Y., (2016), *Bond pricing and sensitivity*, *The Case Centre*, case study 116-0103-1, teaching note 116-0103-8