

Loïc Maréchal

PH.D. IN FINANCE · VISITING LECTURER

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I have a Ph.D. in finance, and I am placed in between the financial industry and academia. I am passionate about interdisciplinary research at the intersection of finance, machine learning, natural science, and algorithmic trading.

Work experience

ESSEC Business School — Les Roches Hospitality Management School

Paris, France — Crans-Montana, Switzerland

VISITING LECTURER

Oct. 2020 - Present

- Teaching at ESSEC Business school (M.Sc.): “Portfolio theory and investments analysis”, forthcoming
- Teaching at the Les Roches (MBA): “Investment strategies for financial markets and asset management” — “Hotel valuation and performance” — “Financial lifecycle, fundraising, and communication”, best MBA lecturer at Les Roches

University of Neuchâtel

Neuchâtel, Switzerland

SCIENTIFIC COLLABORATOR AND TEACHING ASSISTANT

Sep. 2015 - Mar. 2020

- Teaching: (M.Sc.) “Asset pricing” — “Research in financial analysis” — “Portfolio management” — (B.Sc.) “Principles of finance”
- Lecture design and teaching: “Introduction to web scraping and NLP in Java” — “The role of mathematics in economics”
- Database management for the Institute of Financial Analysis

Cargill

Geneva, Switzerland

SENIOR COMMODITY MARKET ANALYST

Apr. 2014 - Aug. 2015

- Supply and demand models development — Management of 30+ traders in EU, Russia and Ukraine for local data acquisition
- Systematic price forecasts based on fundamental data, order flows, and co-integrated markets
- 3D visualizations of backtests and geographical inventories based on in-house data — Automation of data acquisition

S&P Global — Platts

Lausanne, Switzerland

COMMODITY MARKET ANALYST

Feb. 2011 - May 2013

- Futures and spot prices modeling and forecasts based on supply and demand, meteorological, agronomic, and macroeconomic data
- Development and backtests of trading strategies based on supply and demand (LFT) or market microstructure (HFT) data
- Automation of data collection: web scraping, NLP, and financial data feed integration

Own account

Paris, France — Lausanne, Switzerland

ALGORITHMIC TRADING

Feb. 2010 - Present

- Quantitative analyses — Non-random patterns detection for systematic trading strategies
- Latency arbitrage between OTC and centralized markets — Triangular arbitrage on FOREX — Market making

Bunge Mathematical Institute

Warsaw, Poland

QUANTITATIVE ANALYST

Jun. 2009 - Oct. 2009

- Systematic trading strategies based on statistical filtering of fundamental data and seasonal patterns
- Co-integration tests of time-, quality-, and by-products- spreads in futures and option markets

Education

University of Neuchâtel

Neuchâtel, Switzerland

PH.D. IN FINANCE

Sep. 2016 - Jul. 2021

- Thesis: “Three essays on commodity markets”
- Study of commodity futures markets from asset pricing, risk management, and regulatory perspectives
- Dissertation committee: Profs. Michel Dubois, Tim Kroencke, Florian Weigert, Amit Goyal, Sofia Ramos, and Zeno Adams

University of Paris X — Warsaw School of Economics (SGH)

Nanterre, France — Warsaw, Poland

M.Sc. IN BANKING AND FINANCE

Sep. 2007 - Jan. 2010

University of Versailles-Saint-Quentin-en-Yvelines

Saint-Quentin-en-Yvelines, France

MAÎTRISE IN MANAGEMENT SCIENCES

Sep. 2006 - Jul. 2007

Skills

Programming	ADVANCED: <i>Java, C#</i> — BASIC: <i>C</i>
Data analysis	ADVANCED: <i>R</i> — INTERMEDIATE: <i>Matlab, Python</i>
Typesetting	ADVANCED: <i>LaTeX</i> — BASIC: <i>Markdown</i>
DevOps	BASIC: <i>Google Cloud Platform</i>
Tools	INTERMEDIATE: <i>Tableau, Office</i>
Languages	NATIVE: <i>French</i> , FLUENT: <i>English</i>

Research, talks, and lectures

Research

Journal of Futures Markets

PUBLICATION

Forthcoming

- Do economic variables forecast commodity futures volatility? *Journal of Futures Markets*

WORKING PAPERS

- The valuation effects of index investment in commodity futures (with M. Dubois)
- A tale of two premiums revisited
- Quantitative technology assessment for cyber-defence : A trend- and sentiment-analysis approach (with D. Percia-David, W. Blonay, S. Gillard, T. Maillart, and A. Mermoud)
- A “time-at-risk” investment indicator for cyber-defence (with D. Percia-David, S. Gillard, A. Mermoud, and T. Maillart)

Talks

THE VALUATION EFFECTS OF INDEX INVESTMENT IN COMMODITY FUTURES

- Derivative Markets Conference 2019, Queenstown — ESSEC Workshop on Nonstandard Investment Choice 2019, Paris — Hedge Fund Research conference 2020, Paris, AFFI conference 2021, Nantes — CEMA conference 2021, Madrid — J.P. Morgan Center for Commodities (JPMCC) international symposium 2021, Denver

DO ECONOMIC VARIABLES FORECAST COMMODITY FUTURES VOLATILITY?

- Volatility and Big Data Analysis in Financial Markets 2019, Kaohsiung — New Zealand Finance Meeting 2019, Auckland — IAF research day 2020, Neuchâtel

A TALE OF TWO PREMIUMS REVISITED

- IAF research day 2021, Neuchâtel — Derivative Markets Conference 2021, Auckland

LES MARCHÉS DE MATIÈRES PREMIÈRES SONT-ILS UN NOUVEL ELDORADO?

- “Ma thèse en 180 secondes”, University of Neuchâtel and TV interview, 2021

Lectures

University of Geneva

LECTURER

2021

- Lecturer for the LL.M. TAX and DAS in Asset Management, 2021
- Lecturer for the LL.M. TAX, 2019

Extracurricular activity

Neuchâtel, Switzerland

ASECO

2016–2018

Member of the “Association du corps intermédiaire de la faculté des sciences économiques”

Saint-Blaise, Switzerland

ICHTUS, SAILING ASSOCIATION

2021

Member and volunteer

World

Misc.

Until now

Ski, kitesurf, wingfoil, trail running, and hiking

Additional information

Misc. French citizen, Swiss residence (C permit — applying for the Swiss citizenship), and driving licence