Daniele Ballinari

Curriculum Vitae

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07.06.1992
Nationality: Swiss

My research interests focus on applied financial econometrics and the use of new data sources to improve existing models. In more detail, my current research projects analyze the influence and predictive power of retail investors' behavior for the distribution of stock prices. In particular, using online social media data and textual analysis tools, I investigates the impact of noise trading on the conditional mean and variance of stock returns.

Work experience

Since 08/2017 **Chair of Mathematics and Statistics at the University of St. Gallen**, *Assistent to Prof. Audrino*, St. Gallen.

My research interests focus on applied financial econometrics and the use of new data sources to improve existing models.

03/2014-07/2017 **c-alm AG**, *Asset Liability Management*, St. Gallen.

The employment involved quantitative analysis and the development of financial and actuarial models tools in different programming languages (Java, Matlab and R).

Education

09/2020-12/2020 **Visiting semester**, *Stockholm University*, Stockholm.

Visiting Prof. Buncic at the Stockholm School of Business.

Since 09/2017 **Ph.D. in Economics and Finance**, *University of St. Gallen (HSG)*, St. Gallen.

Selected Courses: Computational Statistics, Bayesian Statistics, Resampling Methods and Forecasting.
Thesis: "Essays in investors' sentiment and attention", under the supervision of Prof. Francesco Audrino, Prof. Michael Lechner, Prof. Zhi Da.

09/2016-06/2018 **Master in Quantitative Economics and Finance - Fast-Track PhD. in Economics and Finance**, *University of St. Gallen (HSG)*, St. Gallen, Grade: 5.71/6.

Selected Courses: Empirical Finance, Big Data and Machine Learning, Financial Volatility.
Thesis: Non-Linear Effects of Economic, Sentiment and Attention Measures on Realized Volatility.

09/2012-06/2016 **Bachelor in Economics**, *University of St. Gallen (HSG)*, St. Gallen, Grade: 5.79/6.

Selected Courses: Stochastic Methods in Finance, Principles of Financial and Insurance Mathematics, Mathematical Methods of Economics, Linear Time Series Analysis.
Thesis: Optimal hedge ratio for Swiss pension funds.

09/2007-07/2011 **High School of Mendriso**, Mendrisio, Switzerland, Grade: 5.22/6.

Four years at the Swiss High School of Mendrisio with focus on mathematics and physics. The Matura paper involved the development of interpolation approaches with cubic splines in the programming language *Python*.

Skills & Languages

Languages	German (mother tongue), Italian (mother tongue), English (fluent, C2), French (basics)
Programming	Python ≡, R ≡, MATLAB ≡, JAVA ▬, PASCAL ▬
Tools	LaTeX ≡, Git ▬, SQL ▬, VBA ▬, Bloomberg-Terminal ▬, Microsoft Office ≡
	[≡: advanced, ▬: intermediate, ▬: basics]

Research

Projects **Sentiment Analysis and Bayesian Model Averaging for Volatility Prediction**.
Research project funded by the Swiss National Science Foundation (2017-2020)

Publications **The Impact of Sentiment and Attention Measures on Stock Market Volatility**,
International Journal of Forecasting, F. Audrino, F. Sigrist, and D. Ballinari (2020).

Structural breaks in online investor sentiment: A note on the nonstationarity of financial chatter, *Finance Research Letters*, D. Ballinari and S. Behrendt (2020).

Working papers **When does attention matter? The effect of investor attention on stock market volatility around news releases**, D. Ballinari, F. Audrino, and F. Sigrist (2020).

How to Gauge Investor Behavior? A Comparison of Online Investor Sentiment Measures, D. Ballinari and S. Behrendt (2019).

Retail investors' trading activity and the predictability of stock return correlations, D. Ballinari (2020).

Presentations **Society of Financial Econometrics**, *Fudan University*, Shanghai, 2019.

Conference on Computational and Financial Econometrics, *University of London*, 2019.

Interests & Activities

Interests	Hiking, skiing, coding, reading, climbing, biking
Activities	Participant *Econometric Game* 2018 and 2019, Member of *Ad-Hoc Economics*, Member of *San Gallenses Oeconomiae Comites*