



TRAINING COURSE

FLORENCE SCHOOL OF BANKING AND FINANCE AND BARCELONA GRADUATE SCHOOL OF ECONOMICS

MEASURING AND FORECASTING VOLATILITY AND RISK

Course Instructors:

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22-24 MAY 2018

PROGRAMME

22 MAY	
08.45 - 09.00	Welcome and presentation of the Florence School of Banking and Finance and Barcelona Graduate School of Economics
09.00 - 10.30	Session I: Dynamic Volatility Modelling
	 ARCH and GARCH: Definitions, Properties, Estimation, Forecasting and Extensions
10.30 -10.50	Coffee break
10.50 - 12.25	Session II: Dynamic Correlation Modelling
	 DCC: Definitions, Properties, Estimation, Forecasting and Extensions
12.25 - 12.40	Break
12.40 - 14.00	Practice Session I: Forecasting Volatility and Correlations
14.00 - 15.00	Lunch

23 MAY	
09.00 - 10.30	Session III: Systemic Risk I
	 CoVaR: Definition, Estimation and Empirical Evidence
10.30 - 10.50	Coffee break
10.50 - 12.25	Session IV: Systemic Risk II
	 MES and SRISK: Definition, Estimation and Empirical Evidence
12.25 - 12.40	Break
12.40 - 14.00	Practice Session II: Systemic Risk in the US Financial System
14.00 - 15.00	Lunch
24 MAY	
09.00 - 10.30	Session V: Networks
	■ Connectedness and systemicness. VAR-based measures
10.30 - 10.50	Coffee break
10.50 - 12.25	Session VI: Spillovers and connectedness in a large scale system
	 Shrinkage approaches and machine learning algorithms
12.25 - 12.40	Break
12.40 - 14.00	Practice Session III: Using the BEAR toolbox
14.00 - 15.00	Lunch