Econometrics for Financial Markets

Prof. Massimiliano Caporin

- The statistical analysis of asset prices: integration, random walks and market efficiency

- The statistical analysis of returns: ARMA models, model specification, estimation and diagnostic checking; the case of market anomalies

- Univariate volatility modeling: sources of heteroskedasticity, GARCH models (estimation and diagnostic), asymmetry, news impact curve, volatility forecasting; introduction to high frequency data and the estimation of integrated volatility and jumps; models for realized volatility; multiplicative error model;

- Multivariate time series models: VAR models, cointegration and VECM models

- Multivariate volatility modeling: multivariate GARCH specifications, dynamic conditional correlation; financial applications.