



Partner Institutions



**FUNDAMENTAL COURSES**

S. Pécché	<b>Stochastic calculus &amp; diffusion models</b>	M. Merle	<b>Markov Chains</b>
S. Delattre	<b>Basics of Data modeling &amp; statistical inference</b>	S. Gaïffas & A. Fisher	<b>Introduction to Machine learning</b>

GROUP QUANTITATIVE FINANCE		GROUP DATA SCIENCE	
S. Crépey	<b>Derivatives modelling</b>	S. Cléménçon & E. Chautru	<b>Statistical learning</b>
B. Bruder	<b>Financial products</b>	G. Garrigos	<b>Optimization for learning</b>
H. Pham & S. Scotti	<b>Stochastic control in finance</b>	K. Tribouley	<b>Data science projects: use cases for CRM</b>
O. Guéant	<b>Algorithmic trading</b>	M. Abdel-Sayed & L. Massoulard	<b>Data science &amp; statistics of industry</b>
B. Bruder	<b>Quantitative assets management</b>	S. Boucheron	<b>Methods for large data sets</b>
S. Crépey	<b>Quant analysis</b>	F. Rossi	<b>Graphical models for machine learning</b>
Z. Grbac	<b>Advanced modelling in interest rate</b>	J. Lussange	<b>Introduction to reinforcement learning</b>
M.C. Quenez	<b>Nonlinear methods in finance</b>	S. Gaïffas	<b>Deep learning</b>
R. Aid, P. Gruet	<b>Energy markets</b>	<b>GROUP STATISTICS &amp; MACHINE LEARNING IN FINANCE</b>	
<b>GROUP RISKS IN FINANCE</b>		J.M. Bardet	<b>Financial time series</b>
S. Scotti & A. El Alami	<b>Risks: regulation, measure &amp; management</b>	A. Gloter	<b>Statistics of diffusion</b>
J.D. Fermanian	<b>Copulas &amp; financial applications</b>	J.Y. Audibert	<b>Prediction &amp; sequential investments</b>
P. Tankov, O. Zerbib	<b>Green finance</b>	E. Löcherbach	<b>Point processes &amp; applications in finance</b>
<b>GROUP NUMERICAL &amp; COMPUTATIONAL METHODS</b>		H. Pham, J.D. Fermanian	<b>Machine Learning for finance</b>
N. Frikha	<b>Monte Carlo methods</b>	<b>GROUP COMPUTER SCIENCE</b>	
Y. Achdou, O. Bokanowski	<b>PDE &amp; numerical methods</b>	O. Carton	<b>C++</b>
J.F. Chassagneux	<b>Advanced probabilistic numerical methods in finance</b>	S. Souchet	<b>Software in statistics</b>

**REQUIRED LEVEL : Master 1 with strong mathematical background, Engineering school**

**DIRECTORS:** Jean-François CHASSAGNEUX, Huyên PHAM (Université de Paris), Eva LOCHERBACH (Paris 1)

**WEBSITE:** <https://masterfinance.math.univ-paris-diderot.fr>

**REGISTRATION : website E-Candidat, <https://ecandidat.app.u-paris.fr/sciences1/#laccueilView>**

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