



FUNDAMENTAL COURSES			
C. Labbé	Stochastic calculus & diffusion models	N. Cunéo	Markov Chains
C. Lévy-Leduc	Data modeling & statistical inference	A. Fischer	Introduction to Machine learning
GROUP QUANTITATIVE FINANCE			
S. Crépey	Fundamentals of derivatives modeling	O. Guéant	Monte Carlo methods
B. Bruder	Financial products	O. Guéant	Advanced probabilistic numerical methods in Finance
M. Talbi	Stochastic control in finance	Y. Achdou, O. Bokanowski	PDE & numerical methods
O. Guéant	Algorithmic trading	S. Cléménçon	Statistical learning
B. Bruder	Quantitative assets management	G. Garrigos	Optimization for learning
S. Crépey	Advanced derivatives modeling	C. Lévy-Leduc, L. Massoulard and M. Abdel-Sayed	Data science projects
Z. Grbac	Advanced interest rates modeling	A. Celisse	Modern approaches for dimension reduction
S. Crépey, M.C. Quenez, and B. Saadeddine	Nonlinear methods in finance: BSDEs and XVA analysis	S. Delattre	Reinforcement learning
Julien Guyon	VIX derivatives and advanced calibration methods	I. Giulini	Deep learning
GROUP EMERGING MARKETS & TECHNOLOGIES		B-E. Chérif Abdellatif	Statistics in high dimension
P. Gruet	Energy markets	GROUP STATISTICS & MACHINE LEARNING IN FINANCE	
P. Tankov, T. Roncalli	Green finance	J.M. Bardet	Financial time series
L. Bertucci, M. Jeunesse	Blockchain and decentralised finance	A. Gloter, A. Kebaier	Statistics of processes for finance
A. Jacquier	Quantum Computing in finance	J.Y. Audibert	Prediction & sequential investments
GROUP RISKS IN FINANCE			
N. Frikha, B. Hassani	Risks: regulation, measure & management	E. Löcherbach	Point processes & applications in finance
J.D. Fermanian	Copulas & financial applications	H. Pham, J.D. Fermanian	Machine learning for finance
GROUP COMPUTER SCIENCE			
O. Carton	C++		

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

DIRECTORS: Stéphane CREPEY & Olivier GUEANT (Université Paris Cité), Eva LOCHERBACH (Paris 1)

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

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