

ÉCOLE NATIONALE SUPÉRIEURE D'INFORMATIQUE POUR L'INDUSTRIE ET L'ENTREPRISE

INITIAL ENGINEER TRAINING IN COMPUTER SCIENCE THEMATIC COURSE

APPLIED MATHEMATICS ALEATORY PATTERNS FOR FINANCE

QUANTITATIVE METHODS AND STATISTICS OPTIMISATION DATA SCIENCE OPERATIONAL RESEARCH

CONTACT

ÉTIENNE CHEVALIER etienne.chevalier@ensiie.fr

PARTNERS

NATIXIS SOCIÉTÉ GÉNÉRALE EDF ENGIE CRÉDIT AGRICOLE SNCF AIR FRANCE AXA



ALEXANDRE DAMOUR

PROMOTION 2013 DOUBLE DEGREE ENSILE – MASTER M2IF FINANCIAL ENGINEERING UNIVERSITY PARIS-SACLAY *CTO and co-founder of QuantCube Technology*

Chis course taught me how to use my technical skills in order to start my own company.



MEHDI KACI

PROMOTION 2017 DOUBLE DEGREE ENSILE - MASTER MPRO OPERATIONAL RESEARCH UNIVERSITY OF PARIS-SACLAY Optimisation Engineer at EURODECISION

Today, I am an Optimisation Engineer, in mission at the Operational Research department of Air France.

JOBS OPPORTUNITIES

Data analyst Risk manager Operational research engineer Quantitative analysist Financial engineer Statistics engineer

EXAMPLES OF INTERNSHIPS

Quantitative analysist assistant HSBC Market risks analysist Responsible for statistical studies - datamining

Machine learning

Structured products pricing officer



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S3

INITIAL ENGINEER TRAINING IN COMPUTER SCIENCE THEMATIC COURSE APPLIED MATHEMATICS

This course aims to form engineers with triple skills: computer science, probabilities and statistics, with their industrial and commercial applications (finance, insurance, data science, machine learning), and operational research. This two-year course starts from the 1st semester of the 2nd year (S3) with fundamental mathematics teachings turned toward applications. This first year is a double degree with the M1 of Applied Mathematics of Paris-Saclay University and is a preparation for a last year of specialization, which is, most of the time, a double degree with a university M2. The course speakers come from academical field as well as from companies to offer a complete professional education to the students.

Computer Science Project and Agile Methods Stochastic Process Regularised Regression Model Advanced Programming and Project Data Analysis Operational Research

Simulation Methods Analysis of PDE Statistical Modelisation Stochastic Calculation Introduction to Financial Markets or Operational Research Research Project or Pattern Recognition and Biometrics Python for Data Science or Quantitative Methods and Statistics Advanced Statistic Modelisation Modelisation and Stochastic Control

Stochastic Calculation Research Project or Pattern Recognition and Biometrics

Python for Data Science or Quantitative methods and statistics Advanced Statistical Modelisation Modelisation and Stochastic Control Numerical Methods in Finance Financial Instruments Machine Learning Advanced Stochastic Calculation

DOUBLE DEGREE

Bachelor in Mathematics Évry Val d'Essonne University

M1 Applied Mathematics Paris Saclay University

M2 DEGREES COOPERATED WITH PARIS-SACLAY UNIVERSITY

> Master TCSC AIC Traineeship, Computer Science and Content

Master MPRO Operational Research

Master DATA SCIENCE Health, Finance, Insurance

> Master ITDE TRIED Information Treatment and Data Exploitation

M2 IN PARTNERSHIP WITH PARIS-SACLAY UNIVERSITY

Master IMDS IMSD Innovations, Markets and Data Science

Master MRA GRA Management of Risks and Assets

> Other degrees are possible with foreign universities.