

EDUCATION

PHD IN STATISTICS HEC LAUSANNE Lausanne, Switzerland	Sep 2012 – Mar 2016
<ul style="list-style-type: none"> • Developed tools to model the effects of covariates on multivariate distributions. • Tackled the issue of conditional dependence modeling with generalized additive models. 	
MS IN PHYSICS SWISS FEDERAL INSTITUTE OF TECHNOLOGY, LAUSANNE (EPFL) Lausanne, Switzerland	Sep 2010 – Aug 2012
<ul style="list-style-type: none"> • Minor in Financial Engineering, Swiss Finance Institute 	
BS IN PHYSICS SWISS FEDERAL INSTITUTE OF TECHNOLOGY, LAUSANNE (EPFL) Lausanne, Switzerland	Sep 2006 – Aug 2010

EXPERIENCES

JUNIOR QUANT ENGINEER SWISSQUANT GROUP AG Zurich, Switzerland	Sep 2015 – Apr 2016
<ul style="list-style-type: none"> • Worked as a consultant for the Chicago Mercantile Exchange to develop a risk model for >1'000 futures, vanilla, and exotic products on energy commodities. • Dealt with alpha research and day-to-day operations of a quant fund in the asset management division. 	
GRADUATE TEACHING ASSISTANT HEC LAUSANNE Gland, Switzerland	Mar 2013 – Aug 2015
<ul style="list-style-type: none"> • Taught statistics to 900 first-year business school students. • Modernized the syllabus towards on statistical computing using a browser-based RStudio interface. 	
GRADUATE RESEARCH INTERN SWISSQUOTE BANK LTD Gland, Switzerland	Feb 2012 – Aug 2012
<ul style="list-style-type: none"> • Worked on methods to combine an investor's subjective market views and quantitative portfolio allocation (from Black-Litterman to Meucci). • Prototyped the methods to prepare their integration within the bank's digital wealth management tool. 	
SEMESTER PROJECTS SWISSQUOTE BANK LTD Gland, Switzerland	Sep 2010 – Sep 2011
<ul style="list-style-type: none"> • Modeled the dependence structure of daily equity returns with graph-theoretic tools. • Developed filtering and visualization tools for large correlation matrices. 	

RESEARCH

POST-DOCTORAL RESEARCHER OPLAB, HEC LAUSANNE Lausanne, Switzerland	Aug 2016 – Dec 2016
<ul style="list-style-type: none"> • Analyzed 1.5 years of intra-daily sales for >4'000 products in 10 retail stores. • Developed a forecasting system of peak intra-daily demand using quantile regression forests. 	
POST-DOCTORAL RESEARCHER CHAIR OF STATISTICS, EPFL Lausanne, Switzerland	May 2016 – Dec 2016
<ul style="list-style-type: none"> • Worked on the homogenization of climate records. • Developed a method combining robust statistics and generalized additive models to detect and correct non-climatic inhomogeneities (e.g., relocations or instrumentation upgrades). 	
VISITING SCHOLAR YU RESEARCH GROUP, UC BERKELEY Berkeley, CA	Sep 2012 – Mar 2013
<ul style="list-style-type: none"> • Analyzed intra-daily foreign exchange rates data using time-frequency decompositions. • Developed a tool to extract trends and periodic patterns in high-frequency financial data. 	

SKILLS

PROGRAMMING

• R • Python • C++ • SQL • \LaTeX • Git • Markdown • Mathematica • MATLAB

LANGUAGES

• English • French

OTHER

• Air sports • Obtained a private pilot licence (PPL) on a Robin DR400.
 • Event organization • Founded a music festival, served as VP and responsible for fundraising of another.