

Thibault Vatter

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EDUCATION

PHD IN STATISTICS | HEC LAUSANNE

Lausanne, Switzerland

- Developed tools to model the effects of covariates on multivariate distributions.
- Tackled the issue of conditional dependence modeling with generalized additive models.

Sep 2012 – Mar 2016

MS IN PHYSICS | SWISS FEDERAL INSTITUTE OF TECHNOLOGY, LAUSANNE (EPFL)

Lausanne, Switzerland

- Minor in Financial Engineering, Swiss Finance Institute

Sep 2010 – Aug 2012

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

- 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.

Sep 2015 – Apr 2016

GRADUATE TEACHING ASSISTANT | HEC LAUSANNE

Gland, Switzerland

- Taught statistics to 900 first-year business school students.
- Modernized the syllabus towards on statistical computing using a browser-based RStudio interface.

Mar 2013 – Aug 2015

GRADUATE RESEARCH INTERN | SWISSQUOTE BANK LTD

Gland, Switzerland

- 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.

Feb 2012 – Aug 2012

SEMESTER PROJECTS | SWISSQUOTE BANK LTD

Gland, Switzerland

- Modeled the dependence structure of daily equity returns with graph-theoretic tools.
- Developed filtering and visualization tools for large correlation matrices.

Sep 2010 – Sep 2011

RESEARCH

POST-DOCTORAL RESEARCHER | OPLAB, HEC LAUSANNE

Lausanne, Switzerland

- 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.

Aug 2016 – Dec 2016

POST-DOCTORAL RESEARCHER | CHAIR OF STATISTICS, EPFL

Lausanne, Switzerland

- 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).

May 2016 – Dec 2016

VISITING SCHOLAR | YU RESEARCH GROUP, UC BERKELEY

Berkeley, CA

- 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.

Sep 2012 – Mar 2013

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.