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## Education

1999 - 2000: Postgraduate Degree in Mathematical Engineering,  
Swiss Federal Institute of Technology in Lausanne (EPFL), and Ecole Polytechnique  
de Paris, France.

Course Work: Scientific Computation, related Computer Science, Probability and  
Statistics, Control and Optimization, Economics and Management.

1993 - 1998: Master of Science Degree in Physics,  
Swiss Federal Institute of Technology in Lausanne (EPFL), Switzerland.

Course Work: Quantum, Solid State, Statistical, and Plasma Physics, Quantum Electrodynamics  
& Optics, Numerical Analysis, Biochemistry, Astrophysics, General Relativity.

## Practical Experience

April 2002 - present PhD Thesis (started), Swiss Federal Institute of Technology in Zürich (ETHZ)  
Prof. R. Rothlisberger, Computer Aided Inorganic Chemistry Group.  
Non-equilibrium and enhanced sampling techniques applied to molecular dynamics.

April - October 2001 Postgraduate Thesis, IBM Zürich Research Laboratory.  
Intelligent Business Infrastructure Group, Computer Science Department.  
Machine learning on databases, theory and implementation of boosted decision trees.  
Application to a Monte Carlo simulation for project risk management.

July - Nov. 2000: Research Assistant, University of Washington, Seattle, USA, Genomation Laboratory.  
Collaboration with e-NoteBooks.com, a scientific software editor.  
Mathematical modeling and simulation of the PCR reaction (biotechnology).

July - Nov. 1999: Research Assistant, University of Lausanne, Institute of Condensed Matter Physics.  
Development of a computer interface for an Atomic Force Microscope.

July - Nov. 1998: Trainee at ABB Corporate Research Ltd, Baden-Dättwil.  
Electrotechnologies Division, Applied Physics Group.  
Analysis and interpretation of leakage current measurements in polymeric dielectrics.  
Hardware and software preparation for testing of prototype supercapacitors.

1996 - 1998: M.S. thesis in Astrophysics. Sauvergnay Observatory, University of Geneva.  
Characterization of the spatial structure of star clusters, investigation of its origins.

September 1996: Practical work in the Photonics and Interface Laboratory, Institute of Physical  
Chemistry, Department of Chemistry, EPFL.  
Photoelectric efficiency of organic dyes used in a new type of solar cells.

## Computer

Operating Systems: UNIX, Mac OS, Windows 98/NT.

Programming: Matlab, Labview, FORTRAN, Pascal, HTML, basic knowledge of Java and C++.

Software: Mathematica, Splus, Igor, LaTeX, MS Office, Lotus 123, WordPro, Notes.

## Languages

French: Native language.

English: Spoken, written : fluent; Gymnase de la Cité Award 1993, TOEFL : 650.

German: Spoken, written : good.

Spanish: Basic knowledge.

REFERENCES UPON REQUEST