

Aurélien BOFFY

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Education

- Sept 06 - Sept 07 **Research-oriented Master's degree**, École Normale Supérieure de Cachan, Paris
Advanced graduate courses in **Machine Learning** and **Computer Vision**
- Sept 03 - Sept 07 **École Nationale des Ponts et Chaussées (ENPC)**, Paris
The ENPC is one of the top 5 French schools for advanced studies in engineering
- "Applied Mathematics and Computer Science" dominant
- Main subjects: modeling, optimization, random models, image processing
- Sept 01 - June 03 **Preparatory classes** – Intensive university-level preparation in Mathematics and Physics for the highly selective entrance exam to French engineering schools
- June 2001 **Baccalauréat** – High school diploma specializing in Mathematics, Physics and Biology
Diploma awarded with highest honors

Work Experience

- April - Sept 2007 R&D Internship – *Google, Zürich (Switzerland)*
"Search Quality" Department – Supervised by G. Bakır and O. Bousquet
- Developed a large scale SVD algorithm using the massively parallel Google infrastructure
- Worked on machine learning applications (Latent Semantic Analysis, Collaborative Filtering)
- Contributed to "Safe-Search" project – Results are going to be used in production code
- July 05 - July 06 Research Internship – *Siemens Corporate Research, Princeton, NJ (USA)*
"Real-Time Vision and Modeling" Department – Supervised by Y. Tsin and Y. Genc
- Improved a method for real-time feature matching by using classification trees
- Wrote a paper accepted for an oral presentation at the BMVC'06 conference
- The work also resulted in a US patent
- March - June 2004 Research Internship – *Dresden University of Technology (Germany)*
- Developed a teachware to solve problems by using the finite element method (in Java)
- 2004 Best Scientific Internship of ENPC nominee
- September 2003 Professional-immersion Internship – *RATP (Paris Public Transport Utility)*
- Worked as a trackworker on the "Metro" (Paris subway system) — night work
- July 2002 Summer job – *Schluchseewerk AG (Germany)*
- Completed different computer and office tasks in a hydroelectric-power station

Computer Skills

- Programming Main language: C++
Knowledge in Java, Visual Basic, OpenGL, PHP, MySQL, CamL
- Mathematics Matlab, Scilab, Maple

Languages

- French** Mother tongue
- English** Fluent (*One year internship in Princeton in 2005-2006*)
- German** Very good level (*Several internships in Germany*)

Publications

Aurélien Boffy, Yanghai Tsin, Yakup Genc. *Real-Time Feature Matching using Adaptive and Spatially Distributed Classification Trees*. British Machine Vision Conference. Edinburgh, UK, September 2006.

Extra-Curricular Activities

Sports: soccer (8 years), badminton (4 years), tennis, skiing
3 years of scouting (Association Godefroy de Bouillon)
Tutored children in Mathematics and Physics