BENOIT SALVANT

E-mail : Benoit.Salvant@espci.org • French nationality, born April, 17th 1978
Mailing Address : 7, Quai du Cheval Blanc • CH-1227 GENEVA • SWITZERLAND
Tel. (office): +41(0)22 76 71 333 • Tel. (Mobile) : +33(0)6 16 95 07 88

DOCTORAL STUDENT - RESEARCH ENGINEER

EDUCATION

Since Oct. 2006 **EPFL (Ecole Polytechnique Fédérale de Lausanne)** *Switzerland*
Doctoral student in Accelerator Physics with Prof. L. Rivkin (EPFL) and Dr E. Métral (CERN) until Oct 2009.
Subject: calculating, simulating and measuring the impedance of the SPS accelerator ring at CERN, Geneva.

2002 - 2003 **Imperial College London** *UK*
Awarded with the International Diploma of Imperial College in Electrical Engineering (1st Class, Nov. 2003).
Awarded with the UNITECH International Degree in Business Studies and Management (Feb. 2004).

1998 - 2003 **ESPCI Paris (Ecole Supérieure de Physique et Chimie Industrielles)** *France*
"Diplôme d'ingénieur" (MSc in General Engineering) within the Paris Institute of Technology (sept. 2003).

1996 - 1998 **Ecole Ste Geneviève, Versailles - *"Ginette"*** *France*
University-level preparation for the competitive entrance exam to French Grandes Ecoles (PCSI, PC*).

1993 - 1996 **Lycée Notre-Dame du Mur, Morlaix** (High-School Graduation - Baccalauréat S Mention Très Bien) *France*

WORK EXPERIENCE

04.2004 / 09.2006 **Research Engineer in Materials and Process - Michelin, Clermont-Fd** *France*
2.5 years
In charge of a research project on tire endurance performance (perimeter: USA and Europe - 1 M€ budget).
In charge of basic and applied research studies in Physics, Chemistry, Thermo-mechanics, and Modeling.
Management of technicians and students. In charge of collaborations with suppliers and research institutes.

09.2003 / 03.2004 **Research student in Combustion Engines - DaimlerChrysler AG , Stuttgart** *Germany*
7 months
Applied Neural Networks to a diesel engine sensor system (Matlab). Two patents were filed on those studies.
In charge of measurements on a Mercedes-Benz diesel engine testbench. Management of 3 technicians.

06.2002 / 09.2002 **Research student in Accelerator Physics - CERN, Geneva** *Switzerland*
2 months
Modeled LHC proton beam characteristics in case of a faulty beam position monitoring (C, MAD-X).

06.2001 / 12.2001 **Research student in Accelerator Physics - LBNL - University of California, Berkeley** *USA*
6 months
Performed magnetic measurements and electron path modeling in superconducting magnets (Matlab).
Provided support for alignment calculations, magnet installation and storage ring commissioning (Matlab).
In charge of analyzing and minimizing the resulting drop in X-ray beam quality for end-users (Igor Pro).

02.2001 / 06. 2001 **Research student in Materials - CEA, Le Ripault** *France*
5 months
Modeled mechanical properties of polyimides macromolecules using Molecular Dynamics (C, Fortran 95).

09.2000 / 01.2001 **Research student in Pharmaceutical biochemistry - Bayer AG, Leverkusen** *Germany*
5 months
Synthesized new pharmaceutically active core structures by solid-phase combinatorial biochemistry.

LANGUAGES AND TECHNICAL SKILLS

English Fluent (6-month-internship in California, 1 year studied in London).TOEIC: 965/1000 - Higher Professional Level.
French Mother tongue
German Fluent (two 6-month-internships in Germany in 2001 and 2004, frequent use for professional issues).
Spanish Good level (Imperial College London Spanish course - grade A).
Computer skills Specialist in Computer Modeling, Neural Networks, Finite Elements, and Matlab Programming (Windows and UNIX).
Proficient at word processing, database, image processing, and programming languages C, Mathematica and Fortran.

EXTRA-CURRICULAR ACTIVITIES

Junior Entreprise Managed scientific projects realized by ESPCI students for external companies (customer relations and accounting).
Associations President of the ESPCI sport club. President of the high school student union and Brittany Regional Student Council Representative.
Sports Practice of handball at a national level, along with athletics and volleyball at a regional level since 1994.
Leisure Regular practice of tennis, squash, soccer, ski, sailing (dinghy, catamaran, windsurfing), and guitar.