JONATHAN HESS

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French Nationality
3rd February 1982
Single
Have done my military service

OBJECTIVE: Position as a PhD/Master's Degree student in the field of bioremediation processes modelling and monitoring.

SUMMARY

- ✓ **Msc in** Biological Oceanology and **Marine Environment** : specialization in n**umerical simulation, modelling, and data analysis**

- ✓ **Msc in Engineering**: solid background in Mathematics (systems control, optimization), Physics

EDUCATION

- 2003-2004: *Msc* (DEA), University of Paris VI, France
  Leading University in Paris (www.umpc.fr)
  Major: Biological Oceanology and Marine Environment
  Specialization: **Numerical simulation, modelling and data analysis**
- 2001-2002: *MSc in Engineering* (Diplôme d'ingénieur), **Ecole Nationale Supérieure de Techniques Avancées**, Paris, France
  Leading General Engineering School at Paris (www.ensta.fr)
  Major: **Environmental Sciences.**
  Specialization: **Oceanography**
  Relevant courses: biology, numerical simulation and modelling for environmental sciences, systems control, optimization, applied mathematics, biochemistry
  Programming (C, Java, FORTRAN)
- 2001: **BSc** in Engineering, ENSTA
- 1999-2001: **Classes Préparatoires, Lycée Chaptal**, Paris, France**.**
  Two years intensive training in special scientific classes to prepare the high competitive nation wide exams to engineering schools. Ranked 224th out of 3000.
- 1999: **Baccalauréat** (specialization in mathematics). Graduated with honors.
  Grade 3/5 at the APIEL diploma.
- 1992-1996: **Studies at the International School of Paris**, English Section

Professional experience

February-July 2004: **Intern, LOV** (Oceanography Laboratory of Villefranche)-**INRIA** (The French National Institute for Research in Computer Science and Control)-University of Essex, **Biological Sciences Department**, three months in Villefranche-sur-mer, France, and two months at the University of Essex, England

- o Compared two chemostat models of phytoplankton growth representing the simultaneous limitation by light and nutrients: had to set a general mathematical formulation of the models to test their stifness and to see if their properties were intrinsic or not- compared them with several sets of data done in chemostat.

May-July 2003: **Intern, LODYC** (Oceanography and Climate laboratory), Paris, France
- o Worked on a model of the biological growing activity at a front: added to a former coupled model, average forcings such as wind stress, sst, salinity-calculated the monthly averages of wind stress, sst, salinity -compared the former and the new model.

July 2002: **Intern, FORUM** (design furniture seller for industry and firms), Paris, France
- o Worked as a storekeeper
- o Managed the warehouse

2001-2002: **Tutor**
- o Taught Maths, Physics and Chemistry
- o Learned pedagogical tools to communicate better

LANGUAGE

French: Native language
English: Fluent (TOEFL 267/330)
German: Proficient
Chinese: Basics

COMPUTER SKILLS

Systems: UNIX(Linux), Windows
Languages: C, HTML, Java, FORTRAN
Software: MS Office, Star Office, Latex, IDL
Computation: Matlab, Scilab, Maple

Other

Sport. Practice of scuba diving for 6 years (level CMAS **, preparing level ***), tennis

Fellowship experience
- One year as treasurer of the sport association
  - ➢ administered a budget of 50,000 euro
  - ➢ organized week-ends and trips for more than hundred students
  - ➢ organized international sport events for more than a thousand students

- Two years in the student union
  - ➢ organized monthly events for more a thousand of students