

23 years old
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Formation

- 2010-2011 **MSc IMPERIAL COLLEGE OF LONDON** applied mathematics: differentiable geometry, geometric mechanics, dynamical systems, bifurcation theory, special and general relativity, quantum dynamics (London).
- 2008-2010 **ENSTA PARISTECH:** the Advanced Techniques Superior National School, a French Grande École equivalent to a Master of Science and engineering.
Main field of study: Applied Mathematics and Fluids Mechanics, finite elements, dynamical systems, control theory, optimisation, turbulence. (Paris)
- 2006–2008 **Classes Préparatoires aux grandes écoles:** Intensive preparation for the competitive examination to the major engineering schools throughout France.
- 2006 Scientific Baccalaureate (High School leaving certificate) with **highest honours** (French equivalent of A-levels in Mathematics, Physics and Technologies).

Experience

▸ Academical Experiences

- 2011 Research Project: **Brachistochrone problem in non linear quantum dynamics.** IMPERIAL COLLEGE OF LONDON. *5 months* – Supervisor: Eva-Maria GRAEFE. (Londres)
- 2010 Laboratory Project: **Study of the dynamics of the three body problem near Lagrange points.** Theoretical approach to study the existence of periodic orbits. Using of numerical methods (Newton and continuation) to get a new orbit family. *2 months* – Supervisor: Emmanuel TRÉLAT. (Orléans)
- 2009 Industrial internship. Task performed: **cable-layer** on the electrical conversion modules in the company Alstom. Discovering of worker's labours and operating in a big society. (Belgium)

▸ Professional experiences

- 2009–2011 **Mathematics teacher** for high school students at Acadomia in Paris and in London.
- 2008–2010 **Seasonal work in a farm** that specialises in the production of potatoes. Several activities: uprooting of damaged root-weeds, sorting potatoes.
- 2006 **Nursing auxiliary** during the summer in the **nursing home** section of a hospital
- 2005 Job as an assistant in the company K3 production. Task: **production of an interactive CD** on Law 1905 in flash

Skills

- ▷ **Academical** Applied maths with an highlight on dynamical systems, control theory and optimisation. Good knowledge in finite elements and spectral theory.
- ▷ **Computing**
 - OS: Linux (Debian, Ubuntu, Mandriva), Windows
 - Software: L^AT_EX, METAPOST, Matlab, Mathematica, Maxima, Spigot, Wordpress, Cubase, Photoshop, Illustrator, InDesign, Flash, Suite Office (and free equivalent)
 - Programming: C/C++, Perl, Pascal, Swf, Html/Css, PHP, Lua
- ▷ **Languages**
 - French: Native
 - English: Fluent, One year of study in London. IELTS: 6,5
 - Spanish: Good skills, basic discussion
 - Arab: Beginner (2 years)

Miscellaneous

- ▷ **Music** 6 years of flute, 6 years of guitar, 3 years of cello
 - Since 2005 Member of a **music group and association** NOTE ZIK, with nearly fifty concerts in front of audiences of up to 700 people.
 - 2007 Performing and recording the second album of NOTE ZIK
 - 2005 Performing and recording the first album of NOTE ZIK, cover, photos, etc.
- ▷ **Associative life**
 - Since 2010 Member of the board of association GUTenberg (french T_EX Users Group). **Realisation of the website** www.gutenberg.eu.org.
 - Since 2005 Member of the board of association NOTE ZIK (group support), **Web Site Design** of the group NOTE ZIK <http://www.notezik.com>.
- ▷ **Sport** Hiking in the mountains, Hand Ball for 2 year, Circus practising since 2003, specialisation in juggling and passing.