

# Thibaud Magouroux

36, rue de Moellesulaz  
74240 Gaillard (France)  
☎ +41(0)7 64 47 1664  
✉ [thibaud.magouroux@gmail.com](mailto:thibaud.magouroux@gmail.com)  
Nationality : French  
Swiss permit G (until 31/10/2015)



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## Work Experience

- 2010 – 2014 **Research Assistant**, *University of Geneva, in partnership with Nikon Instruments*, (Geneva, Switzerland).  
Imaging with Harmonic Nanoparticles for **Cancer** Diagnostic and Treatment  
→ Multiphoton microscopy → **Advanced** laser alignment  
→ Publication of **6** research **articles (5 as first author)**  
→ Work in collaboration with **European partners**  
→ Image analysis with Nikon NIS-Elements
- 2011 – 2014 **Scientific outreach**, *Swiss TV (RTS Deux), Physiscope*, (Geneva, Switzerland).  
→ Animate workshops in Physiscope, a “**laboratory for children**” (**for 4 years**)  
→ Acting in an **educational program** “l’Oreille des Kids” (**11 issues**)  
→ Simplify and teach to a non-scientific audience  
→ Stress management → Public speaking fluency
- 2010 **Engineer Internship on Intelligent Wavefront Sensors**, *European Laboratory for*  
(6 months) *Sensory Intelligence*, (**French-German** institute in St-Louis, France).  
Development of a Miniaturised, Fast and Inexpensive Wavefront Sensor based on Silicon Neural Networks  
→ **FPGA** programming in **Verilog** → **C#** programming  
→ Development of a “**patent-pending**” product  
→ Multidisciplinary approach
- 2009 **Research Internship on Material Science**, *Nihon University*, (**Tokyo, Japan**).  
(2 months) Light and matter interaction, research on photoluminescence of photofunctional metal oxides (TiO<sub>2</sub>, CeO<sub>2</sub>)  
→ Laser alignment → Vacuum equipment
- 2008 **Factory Worker Internship in a Semiconductor Fabrication Plant**, *NXP Semi-*  
(6 weeks) *conductors - Philips*, (Caen, France).  
Online manufacturing operator for coating, exposure and development of integrated circuits on silicon wafers  
→ Microelectronics clean room → Managing supply

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## Education

- 2010 – 2014 **PhD degree in Applied Physics**, *University of Geneva*, (Geneva, Switzerland).  
(expected) Developing a nanotechnology-based toolkit to enable early diagnostic of cancer and treatment
- 2010 **Master's degree and Engineer Diploma in Physics**, *Télécom Physique Strasbourg*,  
(Strasbourg, France).  
Specialisation in **Nanophotonics** and **Biophotonics**

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## Computer skills

Programming	<b>C/C++/C#, Java, Matlab</b> , Android applications	Image processing	<b>Nikon Imaging Software</b> (NIS-Elements)
Graphics editors	<b>Adobe Photoshop, Illustrator</b> , Igor Pro	Operating Systems	<b>Linux, Unix</b> , Windows
Scientific	<b>LaTeX, LyX</b>		

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## Languages

French	<b>Native</b>		
English	<b>Fluent</b>	<i>Test of English for International Communication (TOEIC) in 2009: 975/990</i>	
German	<b>Fluent</b>	<i>European level B2 (upper intermediate), learned German and travelled to Germany for <b>family</b> reasons</i>	
Spanish	<b>Basic</b>		