Tom DUPRÉ LA TOUR

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Education

2015-2018
In Progress

Telecom ParisTech – Paris (France)
> PhD in applied mathematics and neuroscience: Non-linear auto-regressive models for EEG/MEG signals analysis, induced by speech or music.
> Supervised by Alexandre Gramfort and Yves Grenier.

2013-2014

Ecole Polytechnique Federale de Lausanne (EPFL) - Lausanne (Switzerland)
> Master in Information technology, in english. Signal processing , image processing, video compression, machine learning, distributed information systems, wireless transmission algorithms, photonic
> Research project on human echolocation

2010-2013

Ecole polytechnique – Palaiseau (France)
> 1st et 2nd years : cross-curricular formation, with maths, physics and informatics
> 3rd year : specialization in Electrical Engineering : Computer architecture, printed circuit board design, semiconductor physics, photovoltaic, signal processing, opto-electronic

2008-2010

Lycee Saint Louis – Paris (France)
> A 2-year intensive undergraduate program for admission to France's top engineering school

Experience

2015
5 months

Telecom ParisTech – Paris (France)
> R&D Engineer, on open-source project Scikit-Learn, library of machine learning in Python
> Implementation of optimization algorithms (SAG, NMF), library maintenance

2014-2015
6 months

DxO Labs – Boulogne-Billancourt (France)
> Search in image processing, on motion deblurring.
> State of the art audit, full prototyping in Matlab, substantial improvements

2013
3 months

Institut d'Electronique Fondamentale – (Institute of Pure Electronics) Orsay (France)
> Search on a new calculus paradigm using stochastic binary signals
> Matlab simulations and implementation of these gates with analogic CMOS circuit (with Cadence)
> Summa cum laude (Ecole polytechnique)

2012
1.5 months

VCORE Solutions – Bethpage NY (USA)
> Creation of a learning support for a professional exam

2010-2011
7 months

Paris Fire Brigade – Paris (France)
> Lead a first responders unit. Professional first aid techniques

Languages

- French   Native speaker
- English   Advanced level C1 (TOEFL: 101)
- Spanish   Intermediate level B2

Other skills

- French BAFA for activity leader
- First aid techniques
- Driving licence

Computer skills

- Python, Matlab, (Java, C++)
- MS Office, LateX
- Adobe Photoshop

Interests

- Climbing, snowboard, ski touring
- Jazz and classical music, violin, guitar, choir
- Photography