

Robin Champenois

Masters graduate

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Born on November 9, 1993



Education

- 2017-2018 **Institute of Technology and Innovation (ITI)**, *One-year diploma*, Paris Sciences et Lettres, France.
Innovation, research and entrepreneurship.
- 2015-2016 **Mathematics, Computer Vision and Machine Learning master (MVA)**, M2, *École normale supérieure*, Paris-Saclay, France.
First class honours.
- 2013-2014 **Computer science research master (MPRI)**, M1, *École normale supérieure*, Paris, France.
- 2013-2014 **Mathematics licence (third year degree)**, *École normale supérieure*, Paris, France.
Honours.
- 2012-2013 **Computer science licence (third year degree)**, *École normale supérieure*, Paris, France, *Option in computer science and maths*.
First class honours.
- 2010-2012 **Classes préparatoires MPSI-MP***, *Lycée Louis-le-Grand*, Paris, France.
Admitted to the ENS on main list, option in maths, physics and computer science.
- 2007-2010 **Scientific Baccalauréat**, *Lycée A. Honnorat*, Barcelonnette.
Option in latin, music. First class honours.

Experience

- 2017, Mar.-Aug. **5-month research project**, *DTU Elektro*, Lyngby, Denmark.
Supervised learning of direct-sound components using binaural signals
Topics : machine learning, signal processing, hearing aids.
Supervised by Tobias May and Torsten Dau.
- 2016-2017 **Gap year**.
Personal projects, travels
- 2016, Apr.-Sep. **6-month research internship**, *Regaind*, Paris, France, `http://regaind.io`.
Summarizing a life of pictures.
Topics : computer vision, visual similarity, deep learning, multi-labelling.
Supervised by Guillaume Seguin.
- 2015-2016 **Elected at Délégation Générale**, *ENS students' housing management*, Paris, France, `http://www.dg.ens.fr`.
Reformed the way housing are distributed, improved the internal software, and renewed the website.
- 2015, Jan.-Aug. **Gap year**.
Personal projects, among which : artistic diaporama-like photo projection ; platform for first-year students projects (for the ENS's administration) ; platform to share students' internship feedback...
- 2014, Sep.-Dec. **3-month internship**, *Google*, Mountain View, CA, USA.
Topics : visual similarity, image search.
Supervised by Congcong Li.

- 2014, Mar.-Jul. **4-month research internship**, *Centro E. Piaggio*, Pisa, Italy.
Shaping cyclic motions.
Topics : optimal control, variable stiffness.
 Supervised by Antonio Bicchi.
- 2013 **2-month research internship**, *INRIA*, Rennes, France.
Co-sparse analysis operator learning for inverse problems in acoustics.
Topics : cosparsity, compressed sensing.
 Supervised by Rémi Gribonval, Nancy Bertin.
- 2013 **Maple practical classes**, *Lycée Louis-le-Grand*, Paris, France.
 Practical classes for prepa students.

Languages

French	Mother tongue	Italian	Basic knowledge
English	Fluent	Danish	Beginner
Spanish	Intermediate		

Skills

Computer science	Machine learning, Computer vision, Object Recognition, Convolutional neural networks for vision, Digital images, Sparsity and compressed sensing, Convex optimization, Signal processing, General algorithmic
Mathematics	Probability and statistics theory, General topology, General algebra, Complex analysis
Programming	Python, Tensorflow, C++, C, Matlab, OCAML, Java, \LaTeX , HTML5, Django, Javascript
Design	Photoshop, Illustrator, Scribus, Krita

Hobbies

Arts	Drawing, poster design, photography, music.
Sports	Cycling, skiing, sailing, swimming, tennis. And quidditch!
Computers	Web development and design, Game programming