

Robin Champenois

Masters graduate

France

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Born on November 9, 1993



Education

- 2018-... **Visual Arts and Computer Vision thesis, PhD**, SACRe, Paris Sciences et Lettres, France.
Starting September 2018
- 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.

Academic experience

- 2018, Jan.-May **5-month research internship**, *DEC, ENS Ulm*, Paris, France.
Influence of controlling motion in orientation tasks using video game
Topics : cognitive psychology experiment, disorientation, virtual navigation, videogame
Supervised by Roberto Casati.
- 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, 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.
- 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, Jun.-Jul. **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.

Extra-academical experience

- 2012-2018 **Involved in students' life organizations.**
 Participating and/or organizing student associations' activities, among which : photography, plastic arts, poster making, student newspaper, fanfare, web development. Help for organization and presentation of artistic projects for main events and student festivals (*La Nuit, les 48h des Arts*).
- 2016-2017 **Gap year.**
 Personal projects, travels, internship in Denmark. Creation of an internal website to share student's feedback on internships.
- 2015-2016 **Elected at Délégation Générale**, *ENS students' housing management, and mediation with ENS's administration*, Paris, France, <http://www.dg.ens.fr>.
 Reformed the way housing are distributed, improved the internal software, and renewed the website.
- 2014-2015 **Gap year.**
 Personal projects, internship in US. Creation of a platform for first-year students projects (for the ENS's administration).

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
Programmation	Python, Tensorflow, Matlab, Torch, C++, C, OCAML, Java
Web	HTML5, CSS, SASS, Django, Javascript, PHP
Design	Photoshop, Illustrator, Darktable, Scribus, Krita, L ^A T _E X

Hobbies

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