

Robin Champenois

Masters graduate

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Born on November 9, 1993



Education

- 2018-... **Visual Arts and Computer Vision thesis, PhD**, SACRe, Paris Sciences et Lettres – IMAGINE, LIGM, École Nationale de Ponts et Chaussées, France.
Starting September 2018
- 2012-2018 **Diplôme de l'École normale supérieure, Computer Science Major, Mathematics Minor**, Paris Sciences et Lettres, France.
(My mother is really proud and wants me to mention it here so I make her happy)
- 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, <https://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, <https://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

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

Skills

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| Computer science | Machine learning, Computer vision, Object Recognition, Deep neural networks for vision and natural language processing, 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

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