

# Hugo TRENTESAUX

## Résumé

20 rue Nélaton  
75015 Paris France  
☎ +33 6 49 88 18 21  
✉ hugo.trentesaux@u-psud.fr  
🌐 <https://trentesaux.fr>  
Born April 13, 1995



### Professional experience

- 2018 current **PhD, Laboratoire Jean Perrin, Sorbonne Univeristé – Paris, Volker Bormuth.**  
Multisensory integration in zebrafish larvae brain
- 2017 spring **Internship, Laboratoire Jean Perrin, Univeristy UPMC– Paris, Volker Bormuth.**  
Behavioural study of the zebrafish larvae vestibular reflex
- 2017 winter **Internship, École Normale Supérieure, ENS – Paris, Vincent Croquette.**  
Work on DNA micromanipulation through SDI in the biophysics lab
- 2016 summer **Internship, Boston University, BU – Boston, Jerome Mertz.**  
Prototyping a new ultrasound imaging technique in the biomicroscopy laboratory
- 2015-2016 **Physics teaching in MPSI, Lycée Buffon – Paris.**  
Oral tutor for undergraduate CPGE program
- 2014-2015 **Applied research on laser, Charles Fabry laboratory, IOGS.**  
Prototyping of a monomode semi-conductor laser, frequency stabilized

### Education

- 2017 winter **DLDIY Deep learning lecture, ENS – Paris, Florent Krzakala.**  
Theoretical introduction on deep learning and practical use of pytorch
- 2016-2017 **SBCP Master in biophysics (rank: 2nd), U. Paris-Saclay, U. Paris-Diderot.**  
Statistical physics, soft matter, microbiology, introduction to neurosciences... Grade: 14,61/20
- 2014-2016 **IOGS Institut d'Optique Graduate School, Palaiseau – Paris.**  
School in optical engineering (laser, image processing, electronics, photonics)
- 2014-2015 **BS in fundamental physics, Paris-Sud University – Orsay.**  
Quantum mechanics, special relativity, statistical physics
- 2012-2014 **CPGE Mathematics and Physics, Lycée Buffon, Paris.**  
Selective national program for entering a French Grande École

### Language

French Native                      English Fluent                      German Intermediate

### Computer skills

- 2015 **Founder and chairman of an informatics-robotics club, IOGS.**  
Team working on computer science and robotics  
Matlab, C,  $\LaTeX$ , Linux, Python, Solidworks

### Music

- 2014-2016 **OPS Orchestra, École Polytechnique – Palaiseau.**  
Cello (9 years), Piano (2 years), Oboe (1 year)

### Scout and Humanitarian work

- 2016 **BAFA, national youth animation certificate.**
- 2003-2016 **Scout, camp organizer for about thirty children, regional accountabilities.**
- 2011-2013 **Humanitarian project, Madagascar.**  
Building a cultural exchange project (18000€ funding) with scouts in three Malagasy cities in July-August 2013