

Théophile Bastian

Student — École Normale Supérieure de Paris

École Normale Supérieure (ENS) of Paris

- 2016–2018 **Expected Master's degree**, *Computer Science Department*.
Expected by September 2018.
- 2015–2016 **Bachelor's degree**, *Computer Science Department*.
3rd year of bachelor's degree in computer science at École Normale Supérieure, Paris.
- 2015 **Successfully passed the admission examination**, *Ranked 11th*.

Internships

- Summer 2016 **Game semantics**, *Computer Laboratory, Cambridge, UK*.
Two months internship under the supervision of Glynn WINSKEL, with both theoretical developments and technical implementations.
Topics: game semantics, concurrency.

Past studies

- 2013–2015 **CPGE — “Classes Préparatoires”**, *Lycée St^e Geneviève, Versailles, France*.
CPGEs are two-years intense schools preparing to admission examinations of various prestigious schools.
It also grants an academic equivalence for two years of a bachelor's degree.
- 2013 **High school diploma in science**.
18.2/20 average mark.
- 2010–2013 **High school, science course**, *Lycée Jean Moulin, Pézenas, France*.

Computer science contests and activities

- 2016 **ACM SWERC**, *Porto, Portugal*.
Team “ENS Ulm 3”, ranked 9th.
- 2016 **Google Hash Code**, *Google Paris*.
Team “OCaml4Ever”, ranked 9th.
- 2015 **ACM SWERC**, *Porto, Portugal*.
Team “ENS Ulm 2”, ranked 8th.
- 2013–... **Teacher with France-IOI**.
France-IOI is an organization providing computer science formation to high-school pupils, and selecting the IOI french team.
- 2013 **International Olympiad in Informatics (IOI)**, *Brisbane, Australia*.
Member of the IOI french team.

15, lotissement La Condamine – 34800 ASPIRAN – FRANCE

📞 +33 6 13 84 21 81 • ✉ theophile.bastian@ens.fr • 🌐 [tobast](#)

2012–2013 **Training with France-IOI.**

2011, '12, **Selected for the final round of Prologin.**

'13, '16 Prologin is a french national contest in computer science. The final round goal is to develop an IA for a given board game in 36 hours.

2016–... **Member of the Prologin organization team.**

Skills

Programming languages *By order of proficiency:* OCaml, C++, C, Python, Java, assembly, PHP. Limited experience with a few more languages.

Languages French (native language), English (fluent), Spanish (intermediate), Swedish (beginner).

Programming experience

- School projects
- 🌐 Compiler from a large fragment of Scala to x86-64, written in OCaml.
 - 🌐 Netlist simulator, written in OCaml.
 - 🌐 ARM-like processor, written in Python (generating netlists), and a digital clock running on it.
 - 🌐 Minimalistic kernel running on a Raspberry Pi.
- Personal projects
- 🌐 OC4.5 — Pure OCaml implementation of OC4.5 (supervised learning, building a decision tree from a training set of data).
 - 🌐 ORandForest — Pure OCaml implementation of a random forest classifier built on the top of OC4.5.

Theoretical formation

- Computer science Compilation, low-level networks, semantics and program verification, operating systems, λ -calculus, algorithms, formal languages, computability, basics of signal processing and cryptology, basics of statistical machine learning and computer vision.
- Mathematics Basics of algebra and probability.