

# Alexandre Blanché

## École normale supérieure de Rennes

### Formation

- 2014–2018 **Grande École**, *École normale supérieure de Rennes / University of Rennes 1*, Rennes, France.
- 1st year : L3 Research and Innovation (Computer science) / L3 of mathematics (first half)
  - 2nd year : M1 Research and Innovation / L3 of mathematics (second half)
  - 3rd year : M2 Teaching in mathematics (option Computer Science)
  - 4th Year : M2 Research in Computer Science (SIF) (*in progress*)
- 2013–2014 **Mathematics, Physics and Computer Science preparatory class**, *Camille Guérin High School*, Poitiers, France.
- Two-year intensive program preparing for the national competitive exam for entry to engineering schools : Admitted at the École normale supérieure de Rennes, in the Computer Science department
- 2011–2012 **Scientific Baccalaureate (equivalent to British A-levels)**, *Louis Armand High School*, Poitiers, France.

### Computer Science Skills

C/C++, OCaml,  $\LaTeX$ , Java, Mathematica, Prolog, Matlab, Isabelle

### Language

French Mother tongue  
English Fluent

### Professional Experiences

- May - July **Research Internship**, *Durham University*, Durham, UK.  
2016 Two-month internship in the team of Daniel Paulusma  
"Cliques-Width for Graph Classes Closed under Complementations" (paper published at MFCS 2017 conference, Aalborg, Denmark)
- June - July **Research Internship**, *Inria Rennes*, Beaulieu Campus, Rennes, France.  
2015 Two-month internship in team SUMO under the supervision of Eric Fabre  
Subject : Multiresolution aspects of the diagnosis problem on finite automata
- 2014–2015 **Visits to laboratories**, *Inria/IRISA (Rennes, France)*, *Inria/I3S (Sophia-Antipolis, France)*, *Inria/LaBRI (Bordeaux, France)*.  
Tour of different computer science research laboratories under the supervision of the Computer Science department of the ENS Rennes

2013–2014 **Preparatory class project**, *Camille Guérin High School*, Poitiers, France, Project achieved with Guillaume Ménard, for the one-year project of the competitive exam of the preparatory class.  
Subject : Burrows-Wheeler Transform. Implementation of several data compression algorithms in OCaml, development of an efficient algorithm for the sorting step of the Burrows-Wheeler Transform

## Extra-professional activities

- May-July 2016 **Trip to England**, *Durham University*, Durham, UK.  
Two-month internship in the team of Daniel Paulusma
- July 2013 **Internship at the Banque de France**, *Banque de France of Poitiers*, Poitiers, France.  
One-month internship at the Banque de France of Poitiers, in the FICP department (file of credits' reimbursements incidents)
- November 2011 **Trip to China**, *Shenzhen Institute of Technology*, Shenzhen, Guangdong, China.  
Participation to a robotics and to an English expression contest

## Publications

### **Clique-Width for Graph Classes Closed under Complementation.**

Alexandre Blanché, Konrad K. Dabrowski, Matthew Johnson, Vadim V. Lozin, Daniël Paulusma, Viktor Zamaraev.

*Proceedings of the conference MFCS 2017 (Aalborg, Denmark)*