

Santiago Bautista

Curriculum Vitae

Education

- 2020–2023 **PhD**, *ENS Rennes*, France.
Static Analysis of Algebraic Data Types and Arrays
- 2017–2020 **Master of science: Computer Science**, *ENS Rennes*, France.
- 2016–2017 **Bachelor of science: Computer Science**, *ENS Rennes*, France.
- 2013–2016 **Preparatory course for French *Grandes Ecoles***, *Lycée Pierre de Fermat*, France.
Equivalent to the first two years of bachelor degrees in mathematics and computer science.
- 2013 **High school Diploma**, *Lycée Français Louis Pasteur*, Bogotá - Colombia.

Experience

Research

- February–July 2020 **Research intern**, *Celtique team - INRIA*, Rennes, Supervised by Thomas Jensen and Benoît Montagu.
Static analysis of numerical relations between structured data.
- October 2018–June 2019 **Research intern**, *Trustworthy Systems - Data61 - CSIRO*, Sydney - Australia, Supervised by Matthew Brecknell.
Partial automation of the invariant proofs in the SeL4 verification.
- May–August 2018 **Research intern**, *Cornell University*, Ithaca NY, Supervised by Nate Foster.
Formalization of the semantics of the P4-16 language.
- May–July 2017 **Research intern**, *ASCOLA tem - INRIA / IMT Atlantique*, Nantes - France.
Proved the mathematical laws used in the C2QL language. Supervised by Ronan Cherrueau and Mario Südholt

Programming skills

- Intermediate Coq, C, Scala, Java
- Advanced OCaml, Isabelle/HOL, Python, \LaTeX

Languages

- Spanish **Native**
- French **Native**
- English **Advanced**
- Italian **Intermediate**
- Esperanto **Beginner**

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🌐 <http://perso.eleves.ens-rennes.fr/people/Santiago.Bautista/>