

# Lélio BRUN

PhD candidate at ENS

☎ (+33) (0) 779 822 552

✉ [lelio.brun@ens.fr](mailto:lelio.brun@ens.fr)

🌐 [www.di.ens.fr/~brun](http://www.di.ens.fr/~brun)

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## Educational background

### Course

- 2016 – to date **PhD**, *École normale supérieure (ENS)*, Paris, France.  
Machine-verified Semantics and Code Generation for Synchronous Dataflow Languages.
- 2014 – 2016 **MSc in Computer Science (MPRI)**, *Université Diderot - Paris 7*, Paris, France.  
Honors: *summa cum laude*
- 2012 – 2013 **Aerospace Engineering (exchange)**, *ÉTS*, Montréal, Canada.
- 2010 – 2013 **Post-graduate Engineering Degree (Aerospace)**, *ENSMA*, Poitiers, France.
- 2008 – 2010 **MPSI - MP**, *Lycée Jean-Baptiste Corot*, Savigny sur Orge, France.  
Preparation course for the entrance examinations to French engineering schools.

### Linguistic skills

English **Independent User (B2)**, TOEIC score : 970/990 (2011).

Spanish **Basic User (A2)**.

### Computer skills

Systems Linux, Windows

Programming OCaml, Prolog, C/C++, Ada 95, Fortran 90, Java 5, Python

Proofs Coq, Why3

Versioning Git, Rational Synergy, TortoiseSVN, Bugzilla

Office L<sup>A</sup>T<sub>E</sub>X, LibreOffice, Microsoft Office

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## Work experience

### Teaching assistant

2016–2017 **Compilation**, *ENS*, J.-C. FILLIÂTRE, 3<sup>rd</sup> year undergraduate course.

### Internships

- Apr. – Sep. 2016 **Certified code generation for Lustre**,  
*ENS*, team *PARKAS* (T. BOURKE & M. POUZET), Paris, France, research internship.
- Jan. – Jun. 2015 **Interpreter for a differential functional programming language**,  
*Paris 7* (Y. REGIS-GIANAS), Paris, France, research work.
- May – Dec. 2013 **Simulation software development for helicopter piloting system tests**,  
*Sagem Défense et Sécurité*, Massy, France, internship as a Junior engineer.
- Jun. – Aug. 2012 **Flight simulator for military trainer aircraft**, *Thales Avionics*, *Division Cockpit*,  
Le Haillan, France, internship as a Junior engineer.
- July 2011 **Heat treatments**, *Snecma (groupe SAFRAN)*, Évry-Corbeil, France.

### Other

May – Aug. 2014 **Software engineer**, *Astek (ex Incka)*.