

# Mathieu Laurent

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## Education

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### PhD student

September 2023 –

*Efficient verification of asynchronous distributed systems*  
supervised by Martin Quinson and Thierry Jéron

### Higher french education certificate (*Agrégation*)

June 2022

Professeur agrégé *in computer science*

### École Normale Supérieure de Rennes

September 2019 – June 2023

*Computer science department*

### Preparatory classes MPSI-MP\*

September 2017 – June 2019

*Lycée Claude Fauriel - Saint-Etienne*

### Baccalauréat S

June 2017

*Lycée Saint-Paul - Saint-Etienne*

European bilingual section, with highest honors

## Internships

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### DPOR and Directed model checking

2022

*supervised by Martin Quinson and Thierry Jéron*

### Verification of CUDA codes using Julia instrumentation

2021

*supervised by Ganesh Gopalakrishnan*

### Evaluating synchronization bug finder tools in MPI

2020

*supervised by Martin Quinson and Emmanuelle Saillard*

## Research

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### The MPI BUGS INITIATIVE: a Framework for MPI Verification Tools Evaluation

2021

*Mathieu Laurent, Emmanuelle Saillard, and Martin Quinson.*

Correctness 2021: Fifth International Workshop on Software Correctness for HPC Applications

## Computer skills

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### Basic

- SQL
- Julia
- CUDA

### Intermediate

- Coq
- R
- Java
- L<sup>A</sup>T<sub>E</sub>X

### Advanced

- Python
- OCaml
- C/C++

## Languages

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- **French** Mother tongue.
- **English** Proficient. (985/990 TOEIC, 2021)