

PROGRAMMING LANGUAGES

Python, C, LATEX

Isabelle(HOL), Ocaml,

Java, Java/TypeScript

B (Atelier B)

HTML, CSS, React

Go, Assembly

LANGUAGES

French

Native

English

IELTS C1

German Goethe Zertifikat B2

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vincent-trelat



VINCENT TRÉLAT

PhD Student & Engineer in Computer Science specialized in Formal Methods and their Applications

EDUCATION

Loria, Inria Nancy - Grand Est, Nancy, France

10/2023 - 10/2026

PhD Student

 PhD supervized by Stephan Merz and Sophie Tourret at the Lorraine Research Laboratory in Computer Science and its Applications (Loria): Enhancing B Language Reasoners with SAT and SMT Techniques.

Technical University of Munich, CIT Department Garching, Munich, Germany

• Exchange during Winter Semester, Formal Methods: Automata and Formal Languages, Prof. Dr. J. Esparza, Semantics and Lambda Calculus, Prof. Dr. T. Nipkow, Advanced Computer Architecture, Prof. Dr. H. M. Gerndt, Recent Advances in Model Checking, Prof. Dr. Jan Křetínský

École Nationale Supérieure des Mines de Nancy

2020 - 2023

Engineering student, Nancy, Grand-Est, France

- Computer Science Department: Foundation of Computing, Programming Languages, Secure Coding, Software Engineering, Cyber-awareness, Data Analysis, Deep Learning. Specialization in theoretical computer science and formal methods.
- Award of a grant for academic excellence by the Grand-Est region.

CPGE in Science (Higher school preparatory classes)

2018 - 2020

Lycée Pothier, Orléans, France

• A French two-year intensive undergraduate program in maths, theoretical physics and computer science prior to the most prestigious French colleges and universities.

Highschool, Scientific stream

2015 - 2018

Lycée Charles Péguy, Orléans, France

• Scientific Baccalaureate with European distinction in English with highest honours and congratulations from the jury.

PROFESSIONAL EXPERIENCE

TUM, Munich, Germany

03/2023 - 08/2023

Research internship supervized by Prof. Dr. Tobias Nipkow

Formal verification in Isabelle/HOL of Hopcroft's algorithm for minimizing DFAs including runtime analysis, based on previous work of Peter Lammich and Thomas Türk. GitHub repository: VTrelat/Hopcroft verif.

Clearsy, Aix-en-Provence, France

05/2022 - 09/2022

Formal Methods R&D Engineer Internship

Formal justification of the safety of the real-time execution of the Clearsy Safety Platform (CSP) with the B Method and Isabelle/HOL.

Loria, Nancy, France

09/2021 - 08/2022

Research Internship in Formal Methods

"Formal verification in Isabelle/HOL of an algorithm computing the strongly connected components of a graph", publication in the Archive of Formal Proofs.

Private teacher (Math, Physics and Computer Science)

Casual

PROFILE

- Semi-professional photographer, former trumpet player and self-taught guitarist.
- Advent of Code: participation in 2021 and 2022