

Guilhem Ardouin

PhD Student in Computer Science

✉ guilhem.ardouin@cea.fr

🌐 <http://gardouin.github.io/>

🌀 [gardouin](#)

📘 [guilhem-ardouin](#)

Professional experiences

- 2025 – ...
 - 📖 **PhD student at CEA List**
Formal verification of neural networks ([subject](#))
 - 📖 **Teaching Assistant**
Teaching Assistant at university level ([details](#))
- 2025 (6 months) 📖 **Internship at CEA List**
Verification of neural networks in [CAISAR](#)
- 2024 (3 months) 📖 **Internship at LaBRI**
Symbolic execution for reachability analysis in [KLEE](#)
- 2023 (2 months) 📖 **Internship at LaBRI**
Visual Studio Code extension for [TChecker](#)
- 2022 – 2024 📖 **Teaching in Computer Science and Mathematics**
Private lessons (high school), tutoring (university)

Education

- 2025 – ... 📖 **PhD in Computer Science**
[Université Paris-Saclay](#), [CEA List](#), Palaiseau (91)
- 2024 – 2025 📖 **Master of Science in Fundamental CS (Software Verification)**
[Université de Bordeaux](#), Talence (33)
- 2024 📖 **Abroad semester in Computer Science**
[TU Berlin](#), Berlin (Germany)
- 2022 – ... 📖 **Engineering degree in Computer Science (Formal Methods)**
[ENSEIRB-MATMECA](#), Talence (33)
- 2020 – 2022 📖 **Classes Préparatoires aux Grandes Écoles MPSI / MP**
[Lycée Michel Montaigne](#), Bordeaux (33)

Skills

- Foreign languages 📖 English (C1), German (B1), Italian (A1)
- Programming 📖 C, C++, OCaml, Python, Java, JavaScript (TypeScript)
- Formal Methods 📖 Verification and formal conception (model-checking, abstract interpretation, CEGAR, TLA+, Frama-C), logics (propositional, FO, MSO, LTL), constraints solvers (Z3, Why3), neural networks verification
- Fundamental CS 📖 Computational models, calculability, complexity
- MISC 📖 AI (RL, ML), $\text{\LaTeX}$, git, databases (SQL), networks, compilation, cryptography, web development

Leisure activities

Sport (running, swimming, bouldering), reading, cooking