Remy SEASSAU

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I am a second year PhD candidate in Theoretical Computer Science at Inria Paris. My research is in the field of Programming Language Theory, focusing on mathematical reasoning about program behaviour.

Education

Ph.D. in Computer Science, Advised by François Pottier — 2023-*2026*
Inria Paris, Cambium Team (home of OCaml) — Paris, France

MSc in Advanced Computer Science (*merit*) — 2022-2023
University of Oxford, Graduated with honours — Oxford, United Kingdom

BSc, Mathematics and Computer Science Double Major (*cum Laude*) — 2019-2022
École Polytechnique, Graduated with honours, GPA : 3.9/4 — Palaiseau, France

Research Internships

Formal Verification of Unsafe Rust Code @ Microsoft Research — Jul-Aug 2025
Used the Lean proof assistant for the verification of Rust code making use of unsafe primitives.

Bootstrapping a Verified Compiler @ Trustworthy Systems, UNSW Sydney — Jul-Aug 2022
Integrated with the CakeML verified compiler to bootstrap a compiler for the Pancake language.

Formalizing ideals in commutative algebra @ LIX, École Polytechnique — Jul-Aug 2021
Used the Rocq proof assistant for the formalization of some math primitives used in cryptography.

Publications

Formal Semantics & Program Logics for OCaml — 2025
Remy Seassau, Irene Yoon, Jean-Marie Madiot, François Pottier — *ICFP*

Pancake: Verified Systems Programming Made Sweeter — 2023
Johannes Åman Pohjola et al — *Workshop on Programming Languages and Operating Systems*

Professional + Teaching Experience

Teaching Assistant, Introduction to CAML — EPITA, Fall 2025
Teaching Assistant, IP1 Introduction to Programming — Université Paris Cité, Fall 2024
Frontend Engineer @ Anemone (College Startup) — Sep 2021-Apr 2022

Skills

Programming Languages: OCaml, Python, C++, C, Java

Tools: Git, LaTeX, Proof Assistants

Organizational Skills:
Board Member of: Student IT & Network Society, Computer Science Society, Music Society, Sport's Bureau.
Organiser of Inria Paris' Junior Seminar.