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 Pottier2023-2026Inria Paris, Cambium Team (home of OCaml)Paris, FranceMSc in Advanced Computer Science (merit)2022-2023University of Oxford, Graduated with honoursOxford, 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 OCaml2025Remy Seassau, Irene Yoon, Jean-Marie Madiot, François PottierConditionally Accepted DraftPancake: Verified Systems Programming Made Sweeter2023Johannes Åman Pohjola et alWorkshop on Programming Languages and Operating Systems

Professional + Teaching Experience

Teaching Assistant, IP1 Introduction to ProgrammingUniversité Paris Cité, Fall 2024Frontend 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.