

Egor Namakonov

PhD student working on formal verification of concurrent programs

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Aarhus, Denmark

Professional interests

Formal verification, Concurrency, Weak memory, Liveness

Publications

October 2026: **Lawyer: Modular Obligations-Based Liveness Reasoning in Higher-Order Impredicative Concurrent Separation Logic**

October 2021: **Making weak memory models fair**

December 2019: **Compilation of OCaml memory model into Power**

Education

September 2022 – present: **PhD in Computer Science**, Aarhus University

September 2018 – July 2020: **Master in Computer Science**, St Petersburg University

September 2013 – July 2017: **Bachelor in Software Engineering**, Peter the Great St. Petersburg Polytechnic University

Industry experience

July 2019 – August 2022: **JetBrains Research** (St. Petersburg, Russia) — Intern and junior researcher
Weak memory research, teaching

November 2015 – July 2018: **OpenWay Group** (St. Petersburg, Russia) — Intern and DevOps engineer
Continuous Integration, internal Python development, VM administration

Volunteering

June 2022 – November 2022: **Helping to Leave** (Remote) — Software engineer
DSL-based chatbots development, JavaScript programming

June 2022 – May 2024: **OVD-Info** (Remote) — Software engineer
Python chatbots development, CI

Skills

Programming languages: OCaml, Python, Haskell, Rust, also: C, Java, Kotlin, Lisp, Groovy...

Formal verification tools: Rocq proof assistant, Iris separation logic

Automation tools: Vagrant, Docker, Travis CI, Jenkins

Theory: Formal logic, Dependent types

Languages

Russian — Native speaker, English — Fluent, Danish — Intermediate, German — Beginner