

# 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, Elisp, 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