



email: gopavel0@gmail.com
tel: +4915231685467
location: Germany, Kaiserslautern
github: [GoPavel](#)
[LinkedIn](#)

Area of interest:
model checking
compiler engineering
concurrent and distributed systems
program analysis

Pavel Golovin

Ph.D. student in MPI-SWS

Publications

POPL2025 [RELINCHE: Automatically Checking Linearizability under Relaxed Memory Consistency](#)
↔ [paper](#), ↔ [talk](#)

Education

from 2022 **PhD student**, [MPI-SWS](#), under [Viktor Vafeiadis](#) supervision
Topics: model checking and weak memory models

2021 – 2022 **MS in CS**, [ITMO University](#), Faculty of Informational Technologies and Programming
Thesis: Formal verification of LIGO compiler optimizations in Coq
↔ [merge request](#)

2016 – 2020 **BS in CS**, [ITMO University](#), Faculty of Informational Technologies and Programming
Thesis: Using KAT-solver to simplify proofs about weak memory models in Coq
↔ [merge request](#)

Experience

[Serokell](#)
2023 – 2024 (part-time)
2021 – 2022 (full-time)
Haskell/Ocaml Middle Developer. Projects:
• Developing [Motoko-san](#), prototype of code-level verifier for [Motoko](#) language. ↔ [forum report](#)
• Developing LSP server and error recovery feature of a parser for [LIGO](#) compiler; ↔ [error-recovery library](#)

[Wartsila](#)
2020 – 2021
C++/Python Junior Developer. Projects:
• Developing high-performance detector of anomalies in telemetry running on vessels.

[ITMO](#)
2019 – 2021
Teaching Assitant for Math Logic and Type theory courses.

Other Experience

from 2025 **Advisor** of a student working on a follow-up improvement of RELINCHE

2016 – 2022 **Volunteer** in many roles (including group manager) on [NERC/ICPC](#) contests

2021 **Participant** of [OPLSS2021](#) Summer School