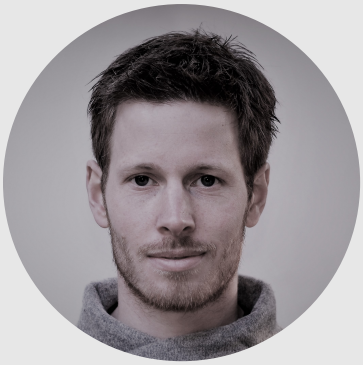

Florian Frohn

Computer Scientist

April 17th 1987

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About me

I'm going to finish my PhD in roughly a year and I am looking for a position for the time thereafter. I like programming (especially in modern languages like Scala) and have lots of programming experience (mostly in Java), but I'm not looking for a pure software engineering resp. software development position.

For further information on my current activity, please visit my website verify.rwth-aachen.de/ffrohn.

Skills

Java

Creativity

Logical Reasoning

Theoretical Computer Science

Scala

Latex

I occasionally programmed in several other programming languages like JavaScript, Ruby, PHP, Shell...

interests

I'm interested in (software) verification, automated reasoning, and theoretical computer science in general. Apart from that, I also like programming. For the time after my PhD, I'm looking for a position in (industrial) research.

education

since 08/13 — Ph.D. student in Computer Science
focus: automated complexity analysis and verification of transition systems and Java programs
RWTH Aachen University, Lehr- und Forschungsgebiet Informatik 2

04/11-08/13 — M.Sc. student in Computer Science ("very good")
focus: software verification, theoretical computer science
RWTH Aachen University

04/07-03/11 — B.Sc. student in Computer Science ("very good")
focus: CSCW, collaborative real-time editing
part-time until 04/09
Fernuniversität Hagen

04/02-12/09 — professional cyclist
member of the German national team from 2005 to 2009
i. a. Thüringer Energie Team

97-06 — high school
specializing in mathematics and sports
Gymnasium Parsberg / Pierre-de-Coubertin-Gymnasium Erfurt

selected publications

JAR, to appear — Lower Bounds for Runtime Complexity of Term Rewriting
lead author

JAR '17 — Analyzing Program Termination and Complexity Automatically with AProVE

JAR '17 — Automatically Proving Termination and Memory Safety for Programs with Pointer Arithmetic

IJCAR '16 — Lower Runtime Bounds for Integer Programs
lead author

SEFM '16 — Proving Termination of Programs with Bitvector Arithmetic by Symbolic Execution

RTA '15 — Inferring Lower Bounds for Runtime Complexity
lead author

IJCAR '14 — Proving Termination and Memory Safety for Programs with Pointer Arithmetic

IJCAR '14 — Proving Termination of Programs Automatically with AProVE

experience

since 08/13 — research and teaching assistant
research in the field of automated program verification
software development (e.g., aprove.informatik.rwth-aachen.de)
teaching of theoretical computer science, Java, and Haskell
RWTH Aachen University, Lehr- und Forschungsgebiet Informatik 2

04/12-07/13 — student assistant
automated verification of Java programs
complexity analysis of transition systems
RWTH Aachen University, Lehr- und Forschungsgebiet Informatik 2

11/09-11/10 — student assistant
development of embedded systems
Fraunhofer FOKUS Berlin

languages

German: Mother tongue — English: Fluent — French: Basic