

# Sigurd Schneider

## Resumé

Saarland University  
Saarland Informatics Campus E 1 3  
66123 Saarbrücken  
✉ [sigurd.schneider@cs.uni-saarland.de](mailto:sigurd.schneider@cs.uni-saarland.de)  
🌐 <http://ps.uni-saarland.de/~sdschn/>

## Education

- since 2012 **Graduate School of Computer Science, Saarland University**, Dissertation Phase.  
Working with Prof. Dr. Gert Smolka and Prof. Dr. Sebastian Hack on compiler verification [4, 3].
- 2010–2012 **Graduate School of Computer Science, Saarland University**, Preparatory phase.  
Qualifying Exam 13.02.2012
- 2009–2010 **Visiting Student (Computer Science), University of Washington**.  
Working with Prof. Michael Ernst on the system log analyzer Synoptic [1].
- 2006–2009 **Bachelor (Computer Science), Saarland University**.  
Working with Prof. Dr. Gert Smolka on decision procedures for modal logic [2].

## Research Stays and Internships

- 2014 **Inria, Rocquencourt**, 3 month, Host: Xavier Leroy.
- 2014 **Google, Munich**, 14 weeks, V8-Team, Host: Michael Starzinger.
- 2015/16 **Google, Munich**, 14 weeks, V8-Team, Host: Michael Starzinger.

## Master thesis

Title *Semantics of an Intermediate Language for Program Transformation*  
Supervisors Prof. Dr. Sebastian Hack, Prof. Dr. Gert Smolka  
URL <http://www.ps.uni-saarland.de/~sdschn/master>  
Submission May 28, 2013

## Bachelor thesis

Title *Terminating Tableaux for Modal Logic with Transitive Closure*  
Supervisors Prof. Dr. Gert Smolka, Dr. Mark Kaminski  
Submission 2009

## Scholarships

- since 2013 **Google Europe Fellowship in Compiler Technology**.
- 2009-2011 **Scholarship of German National Academic Foundation**.
- 2009-2010 **Fulbright Scholarship, Full Stipend**.
- 2006-2009 **Bachelor Honors program**.

## Languages

German **native**  
English **fluent**

---

## Teaching

- 2012/2013 Lead Teaching Assistant (TA) for Programming 1
- 2013 Lead Teaching Assistant (TA) for Programming 2
- 2012 Co-organizer Seminar on Compiler Verification (*Teaching Award*)
- 2008/2009 Supervision TA for Programming 1
- 2007-2012 TA for the courses Programming 1 and 2, Concurrent Programming, Introduction to Computational Logic, Semantics

---

## Publications

- [1] Ivan Beschastnikh, Yuriy Brun, Sigurd Schneider, Michael Sloan, and Michael D. Ernst. “Leveraging existing instrumentation to automatically infer invariant-constrained models”. In: *FSE*. Sept. 5–9, 2011.
- [2] Mark Kaminski, Sigurd Schneider, and Gert Smolka. “Terminating Tableaux for Graded Hybrid Logic with Global Modalities and Role Hierarchies”. In: *Logical Methods in Computer Science* 7.1 (2011).
- [3] Steven Schäfer, Sigurd Schneider, and Gert Smolka. “Axiomatic semantics for compiler verification”. In: *CPP*. Jan. 20–22, 2016.
- [4] Sigurd Schneider, Gert Smolka, and Sebastian Hack. “A Linear First-Order Functional Intermediate Language for Verified Compilers”. In: *ITP*. Vol. 9236. LNCS. Nanjing, China, Aug. 24–27, 2015.