

## Curriculum Vitae

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<b>Personal Data</b>	Data / Place of Birth	July 3, 1984, Munich
	Citizenship	German
	Address	Technische Universität Wien Institut für Informationssysteme 184/4 Favoritenstraße 9–11 1040 Wien Austria
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<b>Research Interests</b>	Bound and Termination Analysis. Program Analysis. Abstract Interpretation. Automata-theoretic Verification.	
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<b>Education</b>	PhD Computer Science <i>Advisor: Helmut Veith</i>	1,0 (May 2011, Technical University of Vienna)
	Diploma Mathematics	1,1 (October 2008, Technical University of Munich)
	Secondary School/ College	1,3 (1994 – 2003, Gymnasium Ottobrunn)

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<b>Academic Positions</b>	Tenure-track faculty at TU Vienna	in the group of Helmut Veith (since 01.07.11)
	Research assistant at TU Vienna	in the group of Helmut Veith (01.02.10 - 01.07.11)
	at TU Darmstadt	(16.05.08 - 31.01.10)
	at TU Munich	(16.12.07 - 15.05.08)
	Internship at Microsoft Research, Redmond	Design and implementation of new algorithms for the SPEED project (01.02.09 - 31.05.09)

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## Publications

Florian Zuleger, Sumit Gulwani, Moritz Sinn and Helmut Veith. Bound Analysis of Imperative Programs with the Size-change Abstraction, In *Proc. SAS*, 280-297, 2011.

Moritz Sinn and Florian Zuleger. Loopus - A Tool for Computing Loop Bounds for C Programs, In *Proc. WING*, to appear, 2010.

Sumit Gulwani and Florian Zuleger. The Reachability-Bound Problem, In *Proc. PLDI*, pages 292-304, 2009.

Johannes Kinder, Florian Zuleger and Helmut Veith. An Abstract Interpretation-Based Framework for Control Flow Reconstruction from Binaries, In *Proc. VMCAI*, pages 214-228, 2009.

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## Talks

Bound Analysis of Imperative Programs with the Size-change Abstraction  
at Theory Seminar at Queen Mary University, 2011  
at Microsoft Research Lecture at Microsoft Research Cambridge, 2011  
at PUMA/RISE Seminar in Traunkirchen, 2011  
at 18th International Static Analysis Symposium (SAS), 2011  
at Software Systems Group Seminar at NICTA, 2011

Resource Bound Analysis for Imperative Programs, PhD Defense, 2011

Termination and Bound Analysis of Imperative Programs, Workshop on Logic and Computer Science, Kurt Gödel Research Center, 2011

The Reachability-Bound Problem  
at RISE Seminar, 2010  
at Programming Language Design and Implementation (PLDI), 2010  
at KPS, 2009

Loopus - A Tool for Computing Loop Bounds for C Programs, WING, 2010

Systematic Disassembly based on Abstract Interpretation, Diploma Defense, 2008

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## Teaching

ST 2012 at TU Vienna	Teaching assistant for Foundations of Digital Systems; design and discussion of exercises
WT 2011/12 at TU Vienna	Conception of the course Program Analysis; giving weekly lectures; organization of an associated seminar for grading students
ST 2012, WT 2011/12, ST 2011, WT 2010/11 at TU Vienna	Teaching assistant for Formal Methods in Computer science; design, correction and discussion of exercises; design, correction and grading of exams
ST 2009, WT 2008/09 at TU Darmstadt	Teaching assistant for Efficient Decision Procedures; design and discussion of exercises
ST 2007 at TU Munich	Undergraduate course assistant for Discrete Probability Theory
WT 2006/07 at TU Munich	Undergraduate course assistant for Discrete Mathematics

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## Professional Activities

### Journal Referee:

ACM Transactions on Programming Languages and Systems (TOPLAS) 2011,  
Journal of Symbolic Computation (JSC) 2011,  
International Journal on Software Tools for Technology Transfer (STTT) 2010,  
Information Processing Letters (IPL) 2010

### Conference Referee:

CAV 2012, LPAR 2012, VMCAI 2012, CSL 2011, SAS 2011, ICALP 2011, FMICS 2011, DATE 2011, VMCAI 2011, POPL 2011, APLAS 2010, LPAR 2010, RTSS 2010, CSR 2010, FMCAD 2010, ATVA 2010, WING 2010, ICTAC 2010, CAV 2010, ESOP 2010, POPL 2010, VMCAI 2010, FMCAD 2009, CAV 2009, WING 2009

Supervision of the diploma thesis of Moritz Sinn at TU Darmstadt.

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### **Scholarships, Prizes, Awards**

*Microsoft Research PhD Scholarship* (October 2007)

*Max-Weber Program* of the Bavarian state (April 2007)

*Experienced Approach to Research* program of TU Munich (April 2007)

Admission into the fast track PhD program *TopMath* of TU Munich (October 2006)

Program for gifted undergraduates *Gems of Computer Science* of TU Munich (2004 - 2006)

Several prizes at the mathematical competitions *Bundeswettbewerb Mathematik*, *Deutsche Mathematik Olympiade*, *Landeswettbewerb Bayern* (1998 - 2003)

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### **Attended Sommerschools**

AVACS Spring School, Oldenburg 2010

Marktoberdorf Summer School, Marktoberdorf 2009

Oregon Programming Languages Summer School, Eugene 2009

Microsoft Research PhD Summer School, Cambridge 2008

Marktoberdorf Summer School, Marktoberdorf 2007

Joint Advanced Student School, St. Petersburg 2006