

Research Interests

Programming Languages, Formal Methods, Program Analysis and Verification, Distributed Systems, and Cyber-Physical Systems.

Professional and Academic Experience

- 2022.10 **Quality Assurance Lead**, *Signaloid*, Cambridge, UK
Remote work from Switzerland
- 2022.01–2022.09 **Consultant**, *Signaloid*, Cambridge, UK
Remote work from Switzerland
- 2016.12–2021.11 **Research group leader**, *Max Planck Institute for Software Systems*, Kaiserslautern, Germany
- 2013.10–2016.9 **Postdoctoral researcher**, *MIT CSAIL*, Cambridge, USA
In Martin C. Rinard's group.

Education

- 09.2009–09.2013 **PhD**, *Institute of Science and Technology Austria*, Klosterneuburg, Austria
Under supervision of Thomas A. Henzinger
- 09.2007–07.2009 **Master**, *École Polytechnique Fédérale*, Lausanne, Switzerland
Master in Computer Science with specialisation in Foundations of Software
- 09.2004–07.2007 **Bachelor**, *École Polytechnique Fédérale*, Lausanne, Switzerland
Bachelor in Computer Science
- 08.1999–06.2004 **Maturité gymnasiale**, *Lycée Collège des Creusets*, Sion, Switzerland
High School in math section (specialisation: physics and numerical methods)

Internships

- 07.2012–08.2012 **Intern**, *Max Planck Institute for Software Systems*, Saarbrücken, Germany
One month internship under supervision of Ruzica Piskac.
- 05.2012–06.2012 **Research consultant**, *Microsoft Research*, Redmond, USA
Three weeks consulting mandate to work with Shaz Qadeer and Ethan Jackson.
- 11.2011–03.2012 **Research intern**, *Microsoft Research*, Redmond, USA
Three months internship with Shaz Qadeer.
- 07.2007–09.2007 **Intern**, *Simon Fraser University*, Vancouver, Canada
Two months internship at the Software Reliability Lab with Dirk Beyer.
- 2006–2008 **Research assistant**, *École Polytechnique Fédérale*, Lausanne, Switzerland
Part-time research assistant at Model and Theory of Computation laboratory.

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Professional Services

Program Committee (co-)Chair

- 22th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI) 2020
- 12th International Workshop on Numerical Software Verification (NSV) 2019
- Verification Mentoring Workshop (VMW) 2017

Program Committee Member

- 48th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL) 2021.
- 30th European Symposium on Programming (ESOP) 2021.
- 17th Asian Symposium on Programming Languages and Systems (APLAS) 2019
- 20th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI) 2019
- 21st International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC) 2019
- 9th ACM SIGPLAN Symposium on Scala (Scala) 2018
- 25th Static Analysis Symposium (SAS) 2018
- 30th International Conference on Computer-Aided Verification (CAV) 2017
- 10th Working Conference on Verified Software: Theories, Tools, and Experiments (VSTTE) 2018
- Student Research Competition at PLDI 2018
- 24th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS) 2018
- 29th International Conference on Computer-Aided Verification (CAV) 2017
- 15th International Conference on Formal Methods and Models for System Design (MEMOCODE) 2017
- 6th Workshop on Synthesis (SYNT) 2017
- 14th International Workshop on Satisfiability Modulo Theories (SMT) 2016
- 7th International Symposium on Games, Automata, Logics and Formal Verification (GANDALF) 2016
- 5th Workshop on Synthesis (SYNT) 2016
- Workshop on Programming based on Actors, Agents, and Decentralized Control (AGERE) 2015
- Scala Symposium 2015
- Annual Scala Workshop (Scala) 2014

Reviewer

- Verification, Model Checking, and Abstract Interpretation (VMCAI) 2015 and 2022
- Logical Methods in Computer Science
- Journal of Automated Reasoning (TACAS 2018 special issue)
- IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) 2019
- IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems 2019
- Principles of Programming Languages (POPL) 2013, 2014, external review committee member in 2017
- Conference on Concurrency Theory (CONCUR) 2012 and 2017
- International Joint Conference on Automated Reasoning (IJCAR) 2016
- Fundamental Approaches to Software Engineering (FASE) 2016
- Foundations of Software Science and Computation Structures (FoSSaCS) 2011 and 2016

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- Journal of Automated Reasoning, special issue on interpolation 2015
- International Conference on Automated Deduction (CADE) 2015
- Tools and Algorithms for the Construction and Analysis of Systems (TACAS) 2015
- International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM) 2015
- International Workshop on Programming based on Actors, Agents, and Decentralized Control (AGERE!@SPLASH) 2014
- Computer Science Logic - Logic in Computer Science (CSL-LICS) 2014
- Acta Informatica (Volume 52)
- European Software Engineering Conference and Foundations of Software Engineering (ESEC/FSE) 2013
- Theoretical Aspects of Software Engineering (TASE) 2013
- Verified Software: Theories, Tools, Experiments (VSTTE) 2012
- Formal Methods (FM) 2012

Teaching and Supervision

Student Supervision

- Supervised PhD students at the MPI-SWS
 - Marcus Pirron (2017 –)
 - Aman Shankar Mathur (2017 – 2022) co-supervised with Rupak Majumdar
 - Felix Stutz (2020 –)
- Supervised Master student
 - Richard Peifer (2018, Saarland University), master thesis “Domain Specific Language for Specifying and Planning of Industrial Processes” co-supervised with Ortwin Mailahn (ZeMA) and Ivan Gavran (MPI-SWS)
 - Manish Kumar (2018, TU Kaiserslautern), master thesis “Byzantine Fault-Tolerance in the Presence of Partial Synchrony: PSync-BFT”
 - Jennifer Ramseyer (2016, MIT CSAIL), master thesis “Implementing a Verified FTP Client and Server” co-supervised with Martin Rinard

Teaching

- Advanced Automata Theory, TU Kaiserslautern
 - summer semester 2019 (co-teaching with Daniel Neider)
- Applied Verification (Project), TU Kaiserslautern
 - winter semester 2020-2021, co-teaching with Klaus Schneider and Daniel Neider
 - winter semester 2019-2020, co-teaching with Klaus Schneider and Daniel Neider
 - winter semester 2018-2019, co-teaching with Klaus Schneider and Daniel Neider
- Concurrency Theory, TU Kaiserslautern
 - winter semester 2019-2020, co-teaching with Anthony W. Lin
 - winter semester 2018-2019, co-teaching with Daniel Neider
 - winter semester 2017-2018

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Awards

- Excellency Scholarships at the Master level from EPFL.
- Graduated best in class from my Bachelor at EPFL.
- Silver Medal of the ACM - International Collegiate Programming Contest (Regionals, South-Western Europe) in 2007 with EPFL (6th place, Swiss champions, team with Frédéric Dubut and Christian Kauth)
- Bronze Medal of the ACM - International Collegiate Programming Contest (Regionals, South-Western Europe) in 2006 with EPFL (9th place, Swiss champions, team with Frédéric Dubut and Abhishek Garg)

Other

Student representative for the IST Graduate Student Association during the year 2011.

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