

I am a computer scientist specialized in the area of program analysis and verification, distributed systems, and cyber-physical systems. Program verification is the part of software engineering dedicated to showing that a piece of software has no bugs. In my academic research, I worked on improving software by developing theoretical models to better understand software artifacts and algorithms to analyze them.

Professional 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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in [damien-zufferey](https://www.damien-zufferey.com/)

Skills

- Leadership
 - Managing a research group with 3 PhD students
 - Organizing conference and workshops with up to 50 participants
- Programming
 - Github profile: <https://github.com/dzufferey>
 - Programming language:
 - experienced in C/C++ and Scala
 - competent in Java, Python, Typescript, and shell scripting
- Languages
 - French (native)
 - English (proficient)
 - German (upper-intermediate)

Academic and Teaching Experience

Here are a summary of my academic career in numbers. (Details in my long for academic CV.)

- I published 37 peer-reviewed scientific papers.
- My results have been cited more than 1200 times and my h-index is 18.
- I organized 3 international conference and workshops.
- I have been in 20 program committee and reviewed for 26 conferences and journals.
- I have supervised 3 PhD students and 3 master thesis.
- I co-taught 7 classes in computer science at the master level (TU Kaiserslautern).

References

Available upon request

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)

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