

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.

To be a successful researcher, I developed general skills that apply to many situations. Foremost, I can learn quickly, adapt, and find creative solutions to hard problems. Furthermore, I can explain my ideas clearly, both orally and in writing.

Professional Experience

- 2023.02– **Static analysis scientist**, *Sonar Source*, Geneva, Switzerland
- 2022.01–2023.01 **Quality assurance lead**, *Signaloid*, Cambridge, UK
Remote work from Switzerland. Consultant from 2022.01 to 2022.09 then as FTE.
- 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
- 09.2004–07.2009 **Bachelor and Master**, *École Polytechnique Fédérale*, Lausanne, Switzerland
Master in Computer Science with specialisation in Foundations of Software

Internships

- 07.2012–08.2012 **Intern**, *Max Planck Institute for Software Systems*, Saarbrücken, Germany
One month internship on verification on heap manipulating programs.
- 05.2012–06.2012 **Research consultant**, *Microsoft Research*, Redmond, USA
Verification of async. state machines in the Research in Software Engineering lab.
- 11.2011–03.2012 **Research intern**, *Microsoft Research*, Redmond, USA
Verification of async. state machines in the Research in Software Engineering lab.
- 07.2007–09.2007 **Intern**, *Simon Fraser University*, Vancouver, Canada
Software model checking in the Software Reliability Lab.

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Academic and Teaching Experience

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

Research. 37 peer-reviewed scientific papers, more than 1200 citations, and my h-index is 18.

Mentoring. I have supervised 3 PhD students and 3 master thesis.

Teaching. I co-taught 7 classes in computer science at the master level (TU Kaiserslautern).

Service. I organized 3 international conference and workshops. I have been in 20 program committee and reviewed for 26 conferences and journals.

Skills

- Leadership (see academic and teaching experience)
- Collaborative work:
 - work in a international and multicultural setting
 - remote work and collaboration (with up to 9 hours time difference)
- 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)

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)

Hobbies

Outside work, I enjoy a few things.

- Making and rapid prototyping. I like using tools like 3D printers and CNC machines to prototype new things, and repair objects.
- Mountains. I enjoy spending time in the mountains to hike, climbing, and ski. I like the majestic environment and pushing my limits (in a safe way).
- Photography. Observing the world, seeing landscape, object, and situation with an new perspective.

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