Damien Zufferey

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)

Interships

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.

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)