

# Pietro Ferrara

Birthdate: 09/04/1981

Verona, Italy

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[\[Full CV\]](#)

12 years of experience in scientific research in the application of static analysis techniques to the software engineering process proven by about 40 scientific articles, 20 patents, 50 talks at various technical conferences, universities and fairs, supervision of a dozen of PhD, master and bachelor students, involvement in several research projects from the writing of the proposal to the development and conclusion of the project.

5 years of industrial experience in delivering prototypes and commercial tools to customers filling the gap between scientific research and development, and delivery of software products. Technical and commercial presentation to customers, evaluation activities, and preparation of commercial and technical documentation.

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## Skills

- Scientific and industrial R&D experience
- Research project management
- Commercial and technical support
- Writing of scientific proposals and papers
- Software development (Java, C#)
- Team player and leader

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## Experience

FROM FEBRUARY 2016

### Head of Research and Development / JuliaSoft, Verona

Main duties:

- Research: investigate and extend the barriers of science in order to deliver innovative solutions to deliver high quality tools. Delivery of several extensions (e.g., C# analysis, privacy checker, automatic splitting for scalability) of the analyzer. About a dozen of scientific publications, twenty scientific talks, several lectures, two scientific projects, supervision of several bachelor or master theses.
- Commercial support: presentation of the Julia static analyzer to various potential customers, fairs and partners, technical and scientific support during evaluation activities.
- Documentation: preparation of technical white papers, data sheets, user manuals, technical e-learning course, technical tutorials and commercial videos

JULY 2013 – DECEMBER 2015

### Research Staff Member / IBM Research, NY, U.S.A.

IBM Thomas J. Watson Research Center in Yorktown Heights. Main duties:

- Research: Apply static and dynamic analysis to security properties of mobile software (mostly privacy properties in Android) by developing various tools to detect violations at compile or run time. About 10 scientific publications, and an IBM Research Accomplishment Award.
- Community: Program committee member of 2 conferences, demo co-chair at OOPSLA 2015, reviewer for 10 international conferences or journals, interviewer of various Software Engineer and Research Staff Member candidates at IBM Research.

APRIL 2009 – JULY 2013

## **Postdoc and Lecturer / ETH Zurich, Switzerland**

Main duties:

- Research: Design and implement a novel generic static analyzer (Sample) combining various value and heap analyses. 4 PhD and 6 master/bachelor students involved in this effort. About 10 scientific publications.
- Funding: Two successful project proposals (600'000CHF in total)
- Teaching: Lecturer of a master course on static program analysis, and teaching assistant for 3 different courses (both at bachelor and master level). Supervision of 3 master and 2 bachelor theses.
- Community: Program committee member of 3 conferences, external reviewer for 20 international journals and conferences, interviewer of about 30 candidates for PhD positions at ETH.

AUGUST 2007 – NOVEMBER 2007

## **Intern / Microsoft Research, U.S.A.**

Theme: “Static analysis of unsafe code in C# via abstract interpretation”. Mentor: Francesco Logozzo

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## **Education**

OCTOBER 2005 – MAY 2009

### **PhD in Computer Science / Ecole Polytechnique, Paris**

Subject: “Static analysis via abstract interpretation of multithread programs”

Advisors: Radhia Cousot (research director, CNRS/Ecole Normale Supérieure) and Agostino Cortesi (full professor and head of the Department of Computer Science, Università Ca' Foscari of Venice)

SEPTEMBER 2003 – FEBRUARY 2005

### **Master in Computer Science / University of Venice**

Laurea specialistica in Informatica, Università Ca' Foscari of Venice. Grade: 110/110 cum laude.

SEPTEMBER 2000 – JULY 2003

### **Bachelor in Computer Science / University of Venice**

Laurea triennale in Informatica, Università Ca' Foscari of Venice. Grade: 110/110 cum laude.

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## **Main Hobbies**

- Chess: I am a decent chess player (<http://ratings.fide.com/card.phtml?event=673129>), vice-president of the Battinelli chess club in Verona, member of its governing council, and captain of one of its teams. I am also a chess instructor at primary schools: usually I gave course composed by 10 lectures (about 1 hour each) to children between 7 and 10 years old. I have been playing chess since I was a child, and I have been playing for Capablanca club in Mestre (Venice), Paris Université Club in Paris, and Reti Club in Zurich (where I was the captain of one of the teams).
- Journalism: in relatively old times (that is, about 15 years ago) I have been an active sport journalist for several newspapers, websites, radios and televisions. I am part of the Register of journalists as occasional contributor since March 2003.