



# Fabio Strocco

## Curriculum Vitae

### Experience

- 2013–2016 **PhD Student**, AARHUS UNIVERSITY, Aarhus, Denmark.  
(Expected) Research on static analysis for web oriented programming languages. As a member of the Programming Languages group, my PhD was advised by Anders Møller and my co-advisor was Erik Ernst. I designed and implemented type checking and static analysis tools for Dart. Part of my fellowship was founded by *Google Faculty Award*.  
I was teaching assistant in Programming Languages, Compilation, Web Technologies.
- Skills Compiler Architecture, Static Analysis, Yacc, Git, Svn, Java, x86 assembly, Emacs, Coq, Dart, Ocaml, Latex, Scheme, Python, Eclipse
- 2011–2012 **Software Developer**, KERNEL NETWORKS, Paris, France.  
Software development and configuration for identity management applications (OIM and FIM) development of a web application with ASP.NET MVC2 and C#.
- Skills Java, Visual Studio 2010, .NET MVC 2 Framework, C#, JSF, XML, XML Schema, JavaScript, JDOM, JSON, JQuery, DHTMLX, Identity Management

### Education

- 2009–2012 **Master's degree in computer science**, *Università di Torino, 110/110 summa cum laude*.  
Programming paradigms (imperative, object oriented, logic, functional), formal methods and models for programming languages, concurrent systems and algorithms design, architecture and design of Object Oriented and multimedial databases, design and implementation of intelligent systems, component-based software engineering.
- Skills Java, Matlab, OCaml, Prolog, J2EE and component-based web programming
- 2006–2009 **Bachelor's degree in computer science**, *Università di Torino, 110/110 cum laude*.  
Imperative and Object Oriented programming, networks (TCP/IP) and network security, design and implementation of relational databases, concurrent and distributed programming. Web based application development, design and implementation of programming languages, algorithms and data structures, software engineering (UP and UML), mathematical foundations.
- Skills Java (Swing, EJB), C (standard library, POSIX system calls), OpenGL (basics), HTML, Javascript, CSS, XML, SQL, Eclipse, NetBeans, Unix and Unix shell

### Projects

- 2015 **CoreScheme**: spare time project, compiler from a small subset of Scheme to LLVM in C++ (<https://github.com/fabiostrocco/core-scheme>).
- 2012 **ARU 2012**: development of a web application for identity and access management in C# (.NET) using FIM Sync.

- 2010 **DeltaJ** (<http://deltaj.sourceforge.net/>): Eclipse tool for an object oriented programming language with a modular approach. The tool contains: compiler to Java, error verifier, type checker, code completion, syntax highlighting and quick fixes. The plugin was developed in Java with the *XText* support (to implement the parser, type checker and IDE tools) and *XPand* (to implement the compiler to Java).
- 2009-2010 **SWRTJ** (<http://swrtj.sourceforge.net/>): Eclipse tool for an object oriented trait-based programming language to allow a fine grained code reuse. The tool contains: compiler to Java, error verifier, type checker, code completion, syntax highlighting and quick fixes. The plugin was developed in Java with the *XText* support (to implement the parser, type checker and IDE tools) and *XPand* (to implement the compiler to Java).

## Publications

- 2015 Erik Ernst and Anders Møller and Mathias Schwarz and Fabio Strocchio: **Message-Safety in Dart**. Proc. 11th Dynamic Languages Symposium (DLS) *This paper presents a faithful formalization of Dart, and presents the notion of Message-Safety together with a soundness-like property proof supporting message-safety. A preliminary version was published at FOOL 2014 (Managing Gradual Typing with Message-Safety in Dart).*
- 2010 Lorenzo Bettini, Ferruccio Damiani, Ina Schaefer, Fabio Strocchio: **A prototypical Java-like language with records and traits**. PPPJ 2010: 129-138 *This paper describes a Java dialect with traits, and its implementation as an eclipse plugin. A further version was published in 2011 (TraitRecordJ: A programming language with traits and records. Sci. Comput. Program. 78(5): 521-541).*

## Skills

Technical Skills	Java (Swing, Applet, JUnit, EJB, JSP, JSF, Servlet, RMI, Oracle ADF), C# (.NET MVC framework), C++, Python, JavaScript (jQuery), HTML, CSS, XML, XML Schema, JSON, JDom, JAX-RS, C (standard library, POSIX system calls), Git, SVN, Prolog, ML, Yacc, JSON, JDom, JAX-RS, C (standard library, POSIX system calls), OpenGL (basics), XText, Latex, Dart, Matlab, SQL, PL/SQL, Pascal
Social Skills	Team-working in multicultural environments, Teaching, Presentation
Languages	English (proficient), French (proficient), Italian (native), Danish (basic)

## Events

- 2015 Research project at University of Maryland, USA
- 2014-2015 Attended first and second PhD European Google Workshop on compiler technologies, Munich
- 2014 Attended Halmstad Summer School on Software Testing Techniques, Sweden

## Interests

- Music
- Cinema
- Tennis
- Piano
- Traveling
- Swimming