

Yiannis Tsiouris

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Personal

Born on May 24, 1988.

Citizen of Athens, Greece.

Education

National Technical University of Athens, Athens, Greece

November 2011 - present

Ph. D., School of Electrical and Computer Engineering

- Research domain: *Programming Languages Design and Implementation, Concurrent and Parallel Programming, Functional Programming, Type Systems, Security*
- Advisor: [Kostis Sagonas](#), Assistant Professor

National Technical University of Athens, Athens, Greece

September 2006 - October 2011

Dipl. Eng., School of Electrical and Computer Engineering

- Majors: Computer Software, Computer Systems and Hardware
- Minors: Computer Networks, Economics
- Thesis Topic: *Implementation of a Low Level Virtual Machine (LLVM) backend for Erlang/OTP System*
- Advisor: [Kostis Sagonas](#), Assistant Professor
- GPA: **8.78/10**

Research Experience

ErLLVM: A project aiming at providing multiple backends for the High Performance Erlang (HiPE), the native code compiler of the Erlang/OTP system, with the use of the LLVM infrastructure.

RELEASE: A High-level Paradigm for Reliable Large-scale Server Software is an EU FP7 STREP (287510) that aims to scale the radical concurrency-oriented programming paradigm to build reliable general-purpose software, such as server-based systems, on massively parallel machines (100 000 cores). Project partners include Heriot-Watt, Ericsson, Uppsala Universitet, Kent University, Erlang Solutions Ltd., National Technical University of Athens and Electricite de France.

Selected Undergraduate Projects

Implementation of a complete compiler for a Python-like language (with semantics of call-by-reference, dynamically allocated types and garbage collection) in OCaml.

Design and implementation of a Database Management System (DBMS) for organizing inter- and intra-university data, such as professors, students and labs' metadata, in Python, Qt4 and PostgreSQL.

Design and implementation of an infrastructure to mark processes that do not need files they own to be cached in memory. The infrasture is implemented as a kernel patch for 2.6.37 Linux kernel.

Extension of the [SIP Communicator](#) by adding extra operational features, such as billing, blocking and forwarding.

Skills

Programming Languages

OCaml, Erlang, Python, Haskell, C/C++, Java

Other

Databases, Networking, System Administration

Languages

Greek (native)

English (Cambridge Certificate of Proficiency in English, CPE)

Extracurricular Activities

Founding and Administrative Member of [“Free and Open Source Software Community”](#) of the National Technical University of Athens.

Organizing committee member of 1st Conference on [“Free and Open Source Software Communities”](#), 21th & 22th March 2008, in Athens, Greece.

Organizing committee member of 5th Conference on [“Free and Open Source Software: Entrepreneurship, Public Sector, Education & Research”](#), 14th & 15th May 2010, in Athens, Greece.

Organizing committee member of 6th Conference on [“Free and Open Source Software: Open Source Software, Development Opportunities”](#), 20th & 21th May 2011, in Athens, Greece.

Participated in numerous FOSS events and conferences.

Hobbies

Soccer/Futsal, Swimming, Enduro, Beach Volleyball, Hiking, Pool