Georgios "George" Balatsouras

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EDUCATION

Ph.D. Candidate, Static Program Analysis   2012 –
Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens
Department of Informatics & Telecommunications
Advisor: Assoc. Prof. Yannis Smaragdakis (smaragd@di.uoa.gr)

Master of Science, Computing Systems   2009 – 2012
Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens
Department of Informatics & Telecommunications
Grade: 9.78/10. Top of graduating class (31 graduates).

Bachelor of Science, Computer Science   2004 – 2009
Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens
Department of Informatics & Telecommunications
Grade: 8.80/10. Top of graduating class (~50 graduates).

EXPERIENCE

LogicBlox, Inc   April 2012 – August 2012
Software Engineer Intern, Compiler Technologies   *Atlanta, GA, USA*
· Supervisor: Shan Shan Huang (ssh@logicblox.com)

University of Athens   July 2011 – present
Research Assistant, Dept. of Informatics & Telecommunications   *Athens, Greece*
· Supervisor: Assoc. Prof. Yannis Smaragdakis (smaragd@di.uoa.gr)
· Project: PADECL ("Advanced Program Analysis Using Declarative Languages")

University of Athens   October 2010 – June 2011
Research Developer, Dept. of Informatics & Telecommunications   *Athens, Greece*
· Supervisor: Prof. Alex Delis (ad@di.uoa.gr)
· Project: PERNASVIP
· Description: Development of the Itinerary Planner Server, i.e. the server who generates the itineraries that will be used for navigation by the end-users of the system

LANGUAGES AND CERTIFICATES

Greek (native), English (fluent)
Certificate of Proficiency in English, University of Michigan (USA)   2003

TECHNICAL SKILLS

Programming Languages	C/C++, Java, Python, Bash, Prolog, Datalog, Emacs Lisp
Version Control Systems	Git, Mercurial, Subversion
Build Automation	GNU Make, Apache Ant, Apache Maven
UNIX Skills	Shell Scripting, Systems Programming, Command-line Utilities
Databases and Tools	SQL, MySQL, JDBC, LogicBlox
Compilers and Debuggers	GCC / G++, GDB, Valgrind, LLVM
Concurrent Programming	Pthreads, MPI, Java (low-level API, `java.util.concurrent.*`)
Frameworks	ASM, BCEL, AspectJ, CGAL, ECLiPSe
Web Development	HTML5 + CSS, PHP, JSP, Django
Other	GNU Bison + Flex Lexical Analyzer, LaTeX, LibreOffice

PUBLICATIONS

· George Balatsouras and Yannis Smaragdakis. "Structure-Sensitive Points-To Analysis for C and C++". In: *Proc. of the 23rd International Symp. on Static Analysis.* SAS '16. Edinburgh, United Kingdom: Springer, 2016. ISBN: 978-3-662-53412-0

· Yannis Smaragdakis, George Balatsouras, and George Kastrinis. "More Sound Static Handling of Java Reflection". In: *Proc. of the 13th Asian Symp. on Programming Languages and Systems.* APLAS '15. Pohang, Korea, 2015

· Yannis Smaragdakis and George Balatsouras. "Pointer Analysis". In: *Foundations and Trends® in Programming Languages* 2.1 (2015), pp. 1–69. ISSN: 2325-1107. DOI: 10.1561/2500000014. URL: http://dx.doi.org/10.1561/2500000014

· Yannis Smaragdakis, George Kastrinis, and George Balatsouras. "Introspective Analysis: Context-sensitivity, Across the Board". In: *Proc. of the 2014 ACM SIGPLAN Conf. on Programming Language Design and Implementation.* PLDI '14. Edinburgh, United Kingdom: ACM, 2014, pp. 485–495. ISBN: 978-1-4503-2784-8. DOI: 10.1145/2594291.2594320. URL: http://doi.acm.org/10.1145/2594291.2594320

· George Balatsouras and Yannis Smaragdakis. "Class Hierarchy Complementation: Soundly Completing a Partial Type Graph". In: *Proc. of the 28th Annual ACM SIGPLAN Conf. on Object Oriented Programming, Systems, Languages, and Applications.* OOPSLA '13. Indianapolis, Indiana, USA: ACM, 2013, pp. 515–532. ISBN: 978-1-4503-2374-1

· Yannis Smaragdakis, George Balatsouras, and George Kastrinis. "Set-Based Pre-Processing for Points-To Analysis". In: *Proc. of the 28th Annual ACM SIGPLAN Conf. on Object Oriented Programming, Systems, Languages, and Applications.* OOPSLA '13. Indianapolis, Indiana, USA: ACM, 2013, pp. 253–270. ISBN: 978-1-4503-2374-1

ACTIVITIES

Teaching Assistant   2009 – 2014
University of Athens - Dept. of Informatics & Telecommunications

HOBBIES & INTERESTS

reading, music (piano, guitar), role-playing games, Emacs hacking, soccer