

Georgios “George” Kastrinis ◇ *CurriculumVitæ*

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EDUCATION

Doctor of Philosophy – PhD, Static Program Analysis 2012 – 2020

Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens

Department of Informatics & Telecommunications

Advisor: Prof. Yannis Smaragdakis (smaragd@di.uoa.gr)

Thesis: *Explorations in Static Pointer Analysis: Adaptive Scalability and Strong Guarantees*

Master of Science, Advanced Information Systems 2009 – 2012

Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens

Department of Informatics & Telecommunications

Grade: 8.42/10 (~ 3% of graduating class)

Bachelor of Science, Computer Science 2005 – 2009

Ethnikon kai Kapodistriakon Panepistimion Athinon / University of Athens

Department of Informatics & Telecommunications

Grade: 8.33/10 (~ 5% of graduating class)

EXPERIENCE

University of Athens January 2011 – present
Software Engineer, PLAST Lab Athens, Greece

Supervisor: Prof. Yannis Smaragdakis (smaragd@di.uoa.gr)

Description: Contributed to the development of the group’s static analyses tools, more specifically the DOOP framework, including implementing novel analyses as well as integrating the available analysis tools with a web application with the aim of showing static analysis results on the source code of the program.

Microsoft Research July 2014 – October 2014
Software Engineer Intern Redmond, WA, USA

Supervisor: Ben Livshits (livshits@microsoft.com)

Description: Contributed to the development of a platform utilizing Amazon’s Mechanical Turk in order to offer a programmable API for creating surveys while taking into consideration a certain financial budget and/or time constraints.

LogicBlox, Inc May 2013 – September 2013
Software Engineer Intern Atlanta, GA, USA

Supervisor: Martin Bravenboer (martin.bravenboer@logicblox.com)

Description: Contributed to the development of a tool to integrate CLANG information to a static analysis framework expressed in Datalog.

Network Operations Center, University of Athens June 2009 – January 2011
Software Engineer Athens, Greece

Description: Developed and maintained various web services and platforms offered to University users by the Network Operations Center.

LANGUAGES AND CERTIFICATES

Greek (native), English (fluent), French (basic)

Certificate of Proficiency in English, University of Michigan (USA) & University of Cambridge (UK)

DEFL A1-A6

TECHNICAL SKILLS

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|------------------------------|---|
| Programming Languages | C/C++, C#, Java, Groovy, Python, Prolog, Datalog, Haskell |
| Build Tools | GNU Make, ANT, Gradle |
| Version Control | Git, Mercurial, Subversion |
| Databases & ORM | SQL, MySQL, LogicBlox, SPARQL, OWL 2, LDAP, LINQ |
| Web Technologies | HTML, CSS, Javascript, PHP, NodeJS |
| Misc | ANTLR 4, Vim, IntelliJ IDEA, Eclipse, GDB |

PUBLICATIONS

- Y. Smaragdakis and G. Kastrinis. «Defensive Points-To Analysis: Effective Soundness via Laziness». In: *Eur. Conf. on Object-Oriented Programming*. **Distinguished Paper Award**. ECOOP '18. Amsterdam, Netherlands, 2018.
- N. Grech, G. Kastrinis, and Y. Smaragdakis. «Efficient Reflection String Analysis via Graph Coloring». In: *Eur. Conf. on Object-Oriented Programming*. ECOOP '18. Amsterdam, Netherlands, 2018.
- G. Fourtounis, G. Kastrinis, and Y. Smaragdakis. «Static Analysis of Java Dynamic Proxies». In: *Intl. Symposium on Software Testing and Analysis*. ISSTA '18. Amsterdam, Netherlands, 2018.
- G. Kastrinis et al. «An Efficient Data Structure for Must-Alias Analysis». In: *Conf. on Compiler Construction*. CC '18. Vienna, Austria, 2018.
- G. Balatsouras et al. «A Datalog Model of Must-alias Analysis». In: *Intl. Workshop on the State Of the Art in Program Analysis*. SOAP '17. Barcelona, Spain, 2017.
- Y. Smaragdakis, G. Balatsouras, and G. Kastrinis. «More Sound Static Handling of Java Reflection». In: *Asian Symp. on Programming Languages and Systems*. APLAS '15. Pohang, Korea, 2015.
- Y. Smaragdakis, G. Kastrinis, and G. Balatsouras. «Introspective Analysis: Context-sensitivity, Across the Board». In: *Conf. on Programming Language Design and Implementation*. PLDI '14. Edinburgh, United Kingdom, 2014.
- Y. Smaragdakis, G. Balatsouras, and G. Kastrinis. «Set-Based Pre-Processing for Points-To Analysis». In: *Conf. on Object-Oriented Programming, Systems, Languages, and Applications*. OOPSLA '13. Indianapolis, Indiana, USA, 2013.
- G. Kastrinis and Y. Smaragdakis. «Hybrid Context-Sensitivity for Points-To Analysis». In: *Conf. on Programming Language Design and Implementation*. PLDI '13. Seattle, WA, USA, 2013.
- G. Kastrinis and Y. Smaragdakis. «Efficient and Effective Handling of Exceptions in Java Points-To Analysis». In: *Conf. on Compiler Construction*. CC '13. Rome, Italy, 2013.
- N. Pothitos, G. Kastrinis, and P. Stamatopoulos. «Constraint Propagation as the Core of Local Search». In: *Proc. of the 7th Hellenic Conf. on Artificial Intelligence*. SETN '12. Lamia, Greece, 2012.

ACTIVITIES

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|---|---------------|
| Teaching Assistant | 2009 – 2019 |
| University of Athens - Dept. of Informatics & Telecommunications | |
| Courses: <i>OOP, Advanced OOP, Systems Programming, Introduction to Programming</i> | |
| Google PhD Student Summit on Compilers | December 2016 |
| PLDI '15 Student Volunteer | June 2015 |