

# Laertis LOUTSIS

## PERSONAL DETAILS

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DATE OF BIRTH: 22 April 1988  
NATIONALITY: Greek  
EMAIL: laertisloutsis@gmail.com

## EDUCATION

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FEB. 2012 - NOV. 2014 M.Sc. in COMPUTER SCIENCE  
Computer Science Department, University of Crete, Greece  
Major: Parallel and Distributed Systems  
Minor: Computer Networks and Telecommunications  
Master Thesis: **ASIST: Architectural Support for Instruction Set Randomization**  
Supervisor: Prof. Evangelos P. Markatos

SEP. 2006 - NOV. 2011 B.Sc. in COMPUTER SCIENCE  
Computer Science Department, University of Crete, Greece  
Thesis: **Analysis and Detection of Heap-Spraying Attacks**  
Advisor: Prof. Evangelos P. Markatos

## WORK EXPERIENCE

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MAR. 2014 - AUG. 2014 R&D Engineer / Postgraduate Research Assistant  
Systems Security Lab, Vrije University Amsterdam  
- Sandbox Execution (*Work in progress*)  
Supervisor: Herbert Boss

FEB. 2012 - NOV. 2014 R&D Engineer / Postgraduate Research Assistant  
Distributed Computing Systems Lab, FORTH-ICS  
- HW & OS support for enhanced security  
- Improving *Intrusion Detection Systems* by utilizing traffic locality  
- Improving *Low Latency Anonymity Networks* against timing attacks

JUN. 2010 - FEB. 2012 R&D Engineer / Undergraduate Research Assistant  
Distributed Computing Systems Lab, FORTH-ICS  
- Analysing and detecting *Heap-Spraying* attacks  
- Leveraging *Detours*' trampoline functions to create memory footprints of Windows executables

JUN. 2007 - JUN. 2010 IT Systems Administrator  
Transformation Services Laboratory (TSL), Computer Science, University of Crete  
- User Administrator, System Maintenance  
Supervisor: Prof. Christos Nikolau

## TEACHING EXPERIENCE

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FEB. 2012 - SEPT. 2014 Teaching Assistant, University of Crete  
CS255 - Software Technology Laboratory Spring 2012, Spring 2013 & Spring 2014  
CS252 - Object-Oriented Programming Fall 2013  
CS120 - Digital Design Fall 2014

## AWARDS

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FEB. 2012 - NOV. 2014	Graduate Research Scholarship, <b>FORTH-ICS</b> , Adjunct Assoc. Prof. Sotiris Ioannidis
OCT. 2010 - FEB. 2012	Undergraduate Research Scholarship, <b>FORTH-ICS</b> , Prof. Evangelos P. Markatos
SEP. 2007 - OCT. 2010	Student Scholarship, <b>TSL</b> , Prof. Christos Nikolau

## CONFERENCES & SEMINARS

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NOVEMBER 2013	ACM Conference on Computer and Communications Security (CCS) Berlin, Germany
JUNE 2013	<b>TRANSFORM Summer School</b> on Research Directions in Distributed Computing
JUNE 2011	4th Summer School on Network & Information Security <b>The Challenge of the Changing Risk Landscape</b> Jointly organized by ENISA and FORTH
JUNE 2007	First International Workshop and Summer School On <i>Service Science, Management &amp; Engineering</i>

## EXTERNAL SERVICE

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EXTERNAL REVIEWER	15th IEEE Global Internet Symposium; 17th International Conference on Architectural Support for Programming Languages and Operating Systems '12 (ASPLOS); 1st SysSec Workshop; 16th International IEEE Symposium on Computers and Telecommunications '11 (ISCC); 18th International Conference on Telecommunications '11 (ICT); 15th International Conference on Financial Cryptography and Data Security '11 (IFCA)
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## PUBLICATIONS

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Antonis Papadogiannakis, *Laertis Loutsis*, Vassilis Papaefstathiou, Sotiris Ioannidis  
**ASIST: Architectural Support for Instruction Set Randomization**. In Proceedings of the  
ACM Conference on Computer and Communications Security (CCS). November 2013,  
Berlin, Germany.

## TECHINICAL SKILLS

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OPERATING SYSTEMS	<i>Linux Kernel</i> development
PLATFORMS	<i>FPGA Development</i>
PROGRAMMING LANGUAGES	C/C++, Java, Matlab, Actionscript
HDLs	VHDL, Verilog
SCRIPTING LANGUAGES	UNIX shell/Bash, Perl, Python, Ruby
WEB/MARKUP LANGUAGES	HTML, Javascript, PHP, $\text{\LaTeX}$
RDBMS	SQL, MySQL

## LANGUAGES

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ENGLISH:	Cambridge Certificate of Proficiency in English ( <b>CPE</b> ) Michigan Certificate of Proficiency in English ( <b>ECPE</b> )
GREEK:	Native
FRENCH:	Basic Knowledge

## MILITARY SERVICE

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FULL SERVICE: Nov. 2014 - Aug. 2015

## REFERENCES

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Prof. Evangelos Markatos, FORTH-ICS ([markatos@ics.forth.gr](mailto:markatos@ics.forth.gr))  
Adjunct Assoc. Prof. Sotiris Ioannidis, FORTH-ICS ([sotiris@ics.forth.gr](mailto:sotiris@ics.forth.gr))