

# Apostolos PYRGELIS

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Marousi, Athens, Greece | 1<sup>st</sup> of December, 1985  
CITIZENSHIP: Greek  
ADDRESS: University College London, Gower Street, WC1E 6BT, London, UK  
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## EDUCATION

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- MAY 2015 - Pursuing a Phd in Computer Science at the **Information Security Group (InfoSec)** at the **Department of Computer Science (CS-UCL)**, University College London (**UCL**), United Kingdom
- PROJECT TITLE: Secure Collaborative Analytics | Advisor: Dr. Emiliano DE CRISTOFARO, Second Advisor: Dr. Gordon Ross
- OCT 2009 - MAR 2012 Master's Degree in Computer Science and Engineering at the **Department of Computer Science and Engineering (CEID)**, University of Patras, Greece
- THESIS: Development of Cryptographic Algorithms for Heterogeneous Wireless Sensor Networks | Advisors: Prof. Paul SPIRAKIS, Prof. Yannis STAMATIOU, Dr. Ioannis CHATZIGIANNAKIS [| Details](#)
- CERTIFICATE DEGREE: "Excellent"
- JAN 2009 - JUN 2009 Student at the **Department of Computer Science and Engineering (CSE-TKK)**, Helsinki University of Technology, Finland (through the student exchange program Socrates/Erasmus)
- SEP 2003 - SEP 2009 Diploma in Computer Science and Engineering at the **Department of Computer Science and Engineering (CEID)**, University of Patras, Greece
- THESIS: Development of a Cryptographic Protocol Using Elliptic Curves for Wireless Sensor Networks | Advisors: Prof. Paul SPIRAKIS, Dr. Ioannis CHATZIGIANNAKIS, Dr. Vasiliki LIAGKOU
- CERTIFICATE DEGREE: 7,91 / 10
- SEP 2000 - JUNE 2003 **Anavrita** Experimental Highschool, Marousi, Athens
- CERTIFICATE DEGREE: 18,9 / 20

## PUBLICATIONS

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Apostolos Pyrgelis, Emiliano De Cristofaro and Gordon Ross, **Privacy-Friendly Mobility Analytics using Aggregate Location Data**, in 24th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems, Burlingame, California, 2016 | [Details](#)

Ioannis Chatzigiannakis, Andrea Vitaletti and Apostolos Pyrgelis, **A privacy-preserving smart parking system using an IoT elliptic curve based security platform**, in Journal of Computer Communications, 2016 | [Details](#)

Vasiliki Liagkou, George Metakides, Apostolos Pyrgelis, Christoforos Raptopoulos and Yannis Stamatiou, **Privacy Preserving Course Evaluations in Greek Higher Education Institutes: an eParticipation case study with the empowerment of Attribute Based Credentials**, in Annual Privacy Forum, Limassol, Cyprus, 2012 | [Details](#)

Ioannis Chatzigiannakis, Apostolos Pyrgelis, Paul Spirakis and Yannis Stamatiou, **Elliptic Curve Based Zero Knowledge Proofs and their Applicability on Resource Constrained Devices**, in Mobile Adhoc and Sensor Systems (MASS), Valencia, Spain, 2011 | [Details](#)

Dimitrios Amaxilatis, Ioannis Chatzigiannakis, Shlomi Dolev, Christos Koninis, Apostolos Pyrgelis and Paul Spirakis, **Adaptive Hierarchical Network Structures for Wireless Sensor Networks**, in 3rd ICST International Conference on Ad Hoc Networks, Paris, France, 2011 | [Details](#)

Tobias Baumgartner, Ioannis Chatzigiannakis, Sandor Fekete, Christos Koninis, Alexander Kröller and Apostolos Pyrgelis, **Wiselib: A Generic Algorithm Library for Heterogeneous Sensor Networks**, in 7th European Conference on Wireless Sensor Networks (EWSN 2010), Coimbra, Portugal, 2010 | [Details](#)

## TECHNICAL REPORTS

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Apostolos Pyrgelis, Carmela Troncoso and Emiliano De Cristofaro, **What Does The Crowd Say About You? Evaluating Aggregation-based Location Privacy**, Technical Report, 2017

[Details](#)

Luca Melis, Apostolos Pyrgelis and Emiliano De Cristofaro, **Private and Scalable Highly Predictive Blacklisting**, Technical Report, 2016

[Details](#)

Souheil Bcheri, Norbert Goetze, Vasiliki Liagkou, Apostolos Pyrgelis, Christoforos Raptopoulos, Yannis Stamatiou, Katalin Storf, Peder Wängmark and Harald Zwingelberg, **EU FP7 ABC4TRUST - D5.1: Scenario Definition for both Pilots**,

[Details](#)

Souheil Bcheri, Kasper L. Damgaard, Daniel Deibler, Norbert Goetze, Hans G. Knudsen, Maksym Moneta, Apostolos Pyrgelis, Eva Schlehahn, Michael B. Stausholm and Harald Zwingelberg, **EU FP7 ABC4TRUST - D5.3: Experiences and Feedback of the Pilots**

[Details](#)

Joerg Abendroth, Vasiliki Liagkou, Apostolos Pyrgelis, Christoforos Raptopoulos, Ahmad Sabouri, Eva Schlehahn, Yannis Stamatiou and Harald Zwingelberg, **EU FP7 ABC4TRUST - D7.1: Application Description for Students**

[Details](#)

Kasper Damgaard, Hamza Ghani, Norbert Goetze, Anja Lehmann, Vasiliki Liagkou, Jesus Luna, Gert Læssøe Mikkelsen, Apostolos Pyrgelis and Yannis Stamatiou, **EU FP7 ABC4TRUST - D7.2: Necessary hardware and software package for the student pilot deployment**

[Details](#)

Daniel Deibler, Malte Engeler, Ioannis Krontiris, Anja Lehmann, Vasiliki Liagkou, Apostolos Pyrgelis, Eva Schlehahn, Yannis Stamatiou, Welderufael Tesfay and Harald Zwingelberg, **EU FP7 ABC4TRUST - D7.3: Evaluation of the Student Pilot**

[Details](#)

## TALKS & ARTICLES

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**Privacy-Friendly Mobility Analytics using Aggregate Location Data** - 3 Nov 2016, ACM SIGSPATIAL, Burlingame, California

[Details](#)

Ioannis Krontiris and Apostolos Pyrgelis, **Menschen vergessen – Systeme nicht, Mehr Datenschutz für den Einzelnen mit ABC4Trust** - PHP Magazine Vol. 5/12. PHP Magazine, 2012.

**Cryptography and Security in Wireless Sensor Networks** - 14 Oct 2009, FRONTS 2nd Winterschool, Braunschweig, Germany

[Details](#)

## WORK EXPERIENCE

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JUN 2016 - AUG 2016	<p>Summer Intern at the ALAN TURING INSTITUTE (<a href="#">ATI</a>)</p> <p>Analysis of a broad dataset provided by a youth support charity in terms of topics, languages and peer-support as well as application of machine learning techniques for predictive tasks.</p> <p>TECHNOLOGIES USED: Python (pandas, scikit-learn, NetworkX), MySQL</p>
MAY 2014 - MAR 2015	<p>Analyst - Software Engineer at the CENTER OF INFORMATION TECHNOLOGY SUPPORT OF THE HELLENIC ARMY (<a href="#">KEPYES</a>)</p> <p>While fulfilling my military service at KEPYES - located at the Ministry of National Defense, i maintained and supported various military administrative applications.</p> <p>TECHNOLOGIES USED: Java, JSP, Javascript, Hibernate, Oracle</p>
NOV 2010 - MAY 2014	<p>Researcher at COMPUTER TECHNOLOGY INSTITUTE AND PRESS "DIO-PHANTUS" (<a href="#">CTI</a>), Patras, Greece</p> <p>EU FP7 Project <a href="#">ABC4TRUST</a>: Attribute Based Credentials for Trust Design of pilot scenarios for privacy protection of end users, implementation of web applications and integration of the ABC4Trust technology, development of cryptographic protocols for smart cards (Zeit Control Basic Card, MultOS), organization and administration of the project pilot at University of Patras, system maintenance and administration (Ubuntu Linux, Windows Server 2008), statistical evaluation of the pilot results using questionnaires, active participation in the writing of project deliverables, research papers.</p> <p>TECHNOLOGIES USED: Java, REST-WS, Jetty, PHP, MySQL, Apache, Drupal</p>
SEP 2010 - OCT 2010	<p>Researcher at COMPUTER TECHNOLOGY INSTITUTE AND PRESS "DIO-PHANTUS" (<a href="#">CTI</a>), Patras, Greece</p> <p>EU FP7 Project <a href="#">VITRO</a>: Virtualized Distributed Platforms of Smart Objects Research on the integration of cryptographic algorithms at the project platform, development of cryptographic algorithms (AES, SHA-1, ECDH, ECIES, ECDSA) on the <a href="#">Wiselib</a> library</p> <p>TECHNOLOGIES USED: C, C++</p>
DEC 2007 - DEC 2008	<p>Employed at HELLENIC TELECOMMUNICATIONS ORGANIZATION (<a href="#">OTE</a>), Patras, Greece.</p> <p>Worked as an operator of administrative IT applications regarding customer service.</p>

## COMPUTER SKILLS

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PROGRAMMING: C, C++, C#, Java, Python, PHP, JSP, Hibernate, MySQL, Oracle,  
Matlab, HTML, Javascript, Ajax, CSS, Xml  
OPERATING SYSTEMS: Microsoft Windows, Linux, Unix

## FOREIGN LANGUAGES

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ENGLISH: Michigan Certificate of Proficiency in English, year 2001  
IELTS Cambridge English Language Assessment (7,5 / 9), year 2015  
FRENCH: Delf A1, A2, A3, A4, year 2000

## INTERESTS AND ACTIVITIES

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SPORTS: Basketball, Football, Swimming, Hiking, Mountain Running, Climbing, Ta-  
ble Tennis, Cycling  
HOBBIES: Music, Cinema, Literature, Technology

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