Apostolos Pyrgelis

Personal Data

Place and Date of Birth:	Marousi, Athens, Greece	1st of December, 1985
Citizenship:	Greek
Address:	University College London, Gower Street, WC1E 6BT, London, UK
Mobile Phone:	+44 7470350878
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Education

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 Heterogenous 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

Apostolos Pyrgelis, Carmela Troncoso and Emiliano De Cristofaro, **Knock Knock, Who's There? Membership Inference on Aggregate Location Data**, in Proceedings of the 25th Network and Distributed System Security Symposium (NDSS 2018), San Diego, California, USA, 2018 | Details

Apostolos Pyrgelis, Carmela Troncoso and Emiliano De Cristofaro, **What Does The Crowd Say About You? Evaluating Aggregation-based Location Privacy**, in 17th Privacy Enhancing Technologies Symposium (PETS), Minneapolis, Minnesota, USA, 2017 | Details

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, USA, 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), Coimbra, Portugal, 2010 | Details

Awards

Feb 2018   **NDSS 2018 Distinguished Paper Award**, for the paper entitled Knock Knock, Who's There? Membership Inference on Aggregate Location Data.

Jul 2017   **PETS 2017 Stipend Award**, for attending the Privacy Enhancing Technologies Symposium (PETS), Minneapolis, Minnesota, USA.

Nov 2016   **ACM SIGSPATIAL 2016 Travel Award**, for attending the International Conference on Advances in Geographic Information Systems, ACM SIGSPATIAL, Burlingame, California, USA.

May 2016   **TPMPC Travel Award**, for attending the workshop on Theory and Practice of Multi-Party Computation (TPMPC), Aarhus, Denmark.

Technical Reports

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

Knock Knock, Who's There? Membership Inference on Aggregate Location Data - 20 Feb 2018, NDSS, San Diego, California, USA | Details

What Does The Crowd Say About You? Evaluating Aggregation-based Location Privacy - 19 Jul 2017, PETS, Minneapolis, Minnesota, USA | Details

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

Sep 2017 - Dec 2017	**Intern at Telefonica Research Barcelona (TID)** Analysis of a large-scale mobility dataset derived from mobile network events. In particular, the project investigated the uniqueness of mobility patterns as well as their inherent characteristics. Technologies Used: Python (numpy, numba)
Jun 2016 - Aug 2016	**Summer Intern at the Alan Turing Institute (ATI)** 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. Technologies Used: Python (pandas, scikit-learn, NetworkX), MySQL
May 2014 - Mar 2015	**Analyst - Software Engineer at the Center of Information Technology Support of the Hellenic Army (KEPYES)** While fulfilling my military service at KEPYES - located at the Ministry of National Defense, i maintained and supported various military administrative applications. Technologies Used: Java, JSP, Javascript, Hibernate, Oracle
Nov 2010 - May 2014	**Researcher at Computer Technology Institute and Press "Diophantus" (CTI), Patras, Greece** EU FP7 Project ABC4TRUST: 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. Technologies Used: Java, REST-WS, Jetty, PHP, MySQL, Apache, Drupal
Sep 2010 - Oct 2010	**Researcher at Computer Technology Institute and Press "Diophantus" (CTI), Patras, Greece** EU FP7 Project VITRO: 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 Wiselib library Technologies Used: C, C++
Dec 2007 - Dec 2008	**Employed at Hellenic Telecommunications Organization (OTE), Patras, Greece.** Worked as an operator of administrative IT applications regarding customer service.

Computer Skills

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

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

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

Last Update: May 15, 2018