

# Giuseppe Pappalardo

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<b>Address</b>	Via Ugo Foscolo, 3 Acireale, 95024	<b>Mobile Phone (IT)</b>	+39 349 73 97 526
<b>Date of Birth</b>	17 <sup>th</sup> October 1984	<b>Mobile Phone (UK)</b>	+44 (0) 7760 812 542
<b>Nationality</b>	Italian	<b>Email</b>	gpappalardo84@gmail.com
		<b>Linkedin</b>	it.linkedin.com/in/giuseppepappalardo

## Education

**Feb 2013 - Present** PhD Student in Computer, Decision and System Science - IMT Institute for Advanced Studies, Lucca  
Research Project Title: The Financial value of Data.  
Thesis Topic: My research is focused on the analysis of economic and financial information from Social Data for the exploration of complex financial dynamics. (Thesis Defense on November/December 2016)  
Advisor: Prof. Guido Caldarelli  
**Technologies:** Python, Flask, MongoDB, Redis, Facebook Graph API, Google API, Yahoo! API.

**2012** Passed the government exam and licensed as a professional engineer, section A - Industrial.

**2008-2012** Msc Automation Engineering and Control of Complex Systems - University of Catania, Catania  
Grade 110/110  
Thesis Topic: Safety requirements and testing on automotive multicore applications.  
Advisor: Prof. Riccardo Caponetto  
Industrial Advisor: Eng. Rosario Martorana, STMicroelectronics, Catania  
**Technologies:** C, Assembly, ISO 26262, microcontrollers for Automotive applications, VHDL, Matlab.

**2008 - 2012** Passed the government exam and licensed as a professional engineer, section B - Information.

**2003 - 2008** Bsc Computer Engineering - University of Catania, Catania  
Grade 101/110  
Thesis Topic: Developing a safe network configuration system with Java for low performance cpu.  
Advisor: Prof. Michele Malgeri.  
**Technologies:** Java, Bering  $\mu$  CLibC, Debian, Bash, C, C++, SQL.

## Employment History

**Feb 2016 - Present** UCL - University College London, 66-72 Gower Street, London, United Kingdom  
*Research Associate*  
I'm developing a Server able to collect data from the Bitcoin peers network in order to study their relationship and behaviour (collaboration/competition). All these data will be deployed as an online Web Server hosted by the UCL Centre for Blockchain Technologies.  
**Technologies:** Go Programming Language, Bitcoin Protocol, Matlab, Python

**May 2015 - Jan 2016** UCL - University College London, 66-72 Gower Street, London, United Kingdom  
*Visiting Researcher*  
I developed and maintain a framework for downloading data from Facebook related to brands and places, and other Financial Data, accessible by a set of APIs (written using Flask as Server and a Python package as client).  
Facebook data will be studied in order to discover which kind of relationship there are with financial returns and sales data for selected firms.  
**Technologies:** Python, Flask, MongoDB, Redis, Facebook Graph API

- Mar 2012 -** STMicroelectronics, Stradale Primosole, Catania, Italy  
**Aug 2012** *Internship for thesis development*
- Development and testing of automotive application on single and multicore automotive micro-controllers in order to satisfy safety (ISO 26262, ASIL D) requirements.
- Technologies:** C, Matlab, ISO-26262, ASIL D, Microcontrollers for Automotive purpose
- Mar 2011 -** University of Hertfordshire, Hatfield, United Kingdom  
**Jul 2011** *Visiting Researcher*
- Development of speaker recognition system using Gaussian Mixture Models and numerical analysis of vocals signals, such as score normalization, in order to improve speaker recognition performance. Supervisor: Prof. Aladdin Ariyaeinia
- Technologies:** C, Matlab, Gaussian Mixture Model, Audio Processing

## Publications, Conferences & Talks

### Posters

- S. Battiston, G. Caldarelli, A. Chessa, A. Flori, F. Pammolli, G. Pappalardo, M. Puliga  
Estimating the performance and the systemic risk of a wide set of companies using financial statements data in a complex network framework.  
ECCS'14 - European Conference of Complex Systems - 22-26/09/2014
- G. Pappalardo, T.T.P. Souza, G. Caldarelli, S. M. K. and T. Aste  
Multiplex Structure of Social Media and Financial Networks  
2nd Annual International Conference on Computational Social Science, 24-26 June 2016, Kellogg School of Management, Northwestern University, Evanston, IL USA

### Papers

- G. Pappalardo, A. Flori, A. Chessa, F. Pammolli, M. Puliga  
Introducing the accounting networks  
<https://arxiv.org/abs/1605.01976>
- G. Pappalardo, G. Caldarelli, T. Aste  
Blockchain inefficiency: The Bitcoin Peers Network (accepted at P2P Financial Systems 2016 Workshop)
- G. Pappalardo, A. Chessa, M. Puliga, Z. Zhu  
Using Facebook as Microeconomic data source (working paper)

## Honors and Grants

- 2013** Ph.D. position in Computer, Decision and System Science at IMT Institute for Advanced Studies, Lucca with 3-years full scholarship, tuition fee waiver and free lodging.

## Software Engineering Skills

- **Programming Languages**  
*Go, Python, Java, C/C++, Assembly - 8086, RISC ,*
- **Numerical Computing**  
*Matlab, R, Octave, Scilab*
- **Web Development**  
*HTML5, CSS3, JavaScript*  
*Test: Selenium - automated testing frameworks Apache Web Servers*

- **Miscellaneous**

*Microsoft SQL Server, MySQL Server, MongoDB  
git, CVS, DARCS - source version control*

- **Development APIs & libraries**

*APIs: Bloomberg, Yahoo!, Google, Facebook.  
Libraries: matplotlib, igraph.*

## **Other Information**

IEEE Graduate Student Member since 2008. Driving License: A, B.  
Hobbies: Running, Boxing, Painting and Drawing.