

# Costanza Maria Improta

costanzaimprota.co.uk

## Contacts

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## Programming Languages

### High Competence:

Java  
HTML5 & CSS3

### Medium Competence:

PHP & MySQL  
JavaScript & JQuery  
Python  
C  
LaTeX  
MatLab

### Low Competence:

ARM assembly  
Verilog  
SQL  
Scala  
C++  
OpenGL  
Swift

## OS

Linux (Ubuntu)  
Windows  
Mac OS X & iOS  
Android

## Software

Microsoft Office  
Inkscape  
Photoshop  
Azure Machine Learning

## Hardware

Raspberry Pi  
Arduino Board

## Education

### The University of Manchester

2015 - 2019

*BSc in Computer Science with Industrial Experience*

First Year result: 73.5%

- Enjoyed Fundamentals of Computation, Distributed Systems and Fundamentals of Artificial Intelligence modules.
- Strong interest in Data Science, Machine Learning, Web Development and Graphics.
- *ShelfShare* - developed in a team this platform on which UoM students may securely trade their goods. Mainly worked on the front-end (HTML5, CSS3, Bootstrap) and coordinated my team tracking our progress on GitLab, Trello and Slack.
- *StendhalGame.org* - as part of a team of 6 students over 12 weeks, tested, debugged, built, developed and deployed a multi-user, multi-threaded, client-server open source game containing over 6000 Java classes and 1800 test cases using Eclipse, Git, Apache Ant, Jenkins, JUnit and SonarQube.

### Beijing Normal University

03/2016 - 04/2016

*Chinese Language and Culture*

Final course result: 98.4%

- Three-week study course funded by the UK government and UoM.
- Achieved a 100% result on the final exam of my daily HSK Level 1 Chinese class.
- Visited Syntun's headquarters - understood the implications of daily processing an enormous amount of data in order to do business forecasts.

### St. George's British International School of Rome

01/2014 - 06/2015

*International Baccalaureate*

IB points: 39 (Top 10 % of worldwide students taking IB in 2015)

- Higher: Maths, Physics, English; Standard: Computer Science, Economics, Italian.
- Computer Science Internal Assessment (100%) - a Digital School Library Service fully designed from scratch following my client's requirements and implemented in Java.
- Extended Essay (A) on Cryptography - "Which encryption method is the most suitable in modern e-commerce payment applications?".
- Maths Internal Assessment on Group Theory - "How is group theory applied to elliptic curves and how this led to Elliptic Curve Cryptography?".

## Work Experience

### Web Developer, Business Analyst, Italian Interpreter

07/2016 - 08/2016

*Wyng43, Hong Kong, HK*

Wyng43 is a Hong-Kong-based angel investing company where I interned for two months. I also had the chance to work with two of its start-ups: BlueSky and Urban Spring.

- Designed and developed from scratch Wyng43's website.
- Facilitated the communication between Urban Spring and potential Italian partners.
- In a team, devised a functioning business model for a self-sustained Hong Kong University Challenge sponsored by BlueSky.
- Researched and identified potential clients for BlueSky.
- In a team, proposed and implemented a model to reduce electricity consumption in their office by 30%.
- Held weekly meetings and actively participated in brainstorming sessions.

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## Qualifications

### LANGUAGES

#### Italian:

Native speaker

#### English:

IELTS

CAE

#### French:

DELFB1

### MATHEMATICS

"Best in Year" & "Silver"  
in UKTM (2013)  
"Best in School"  
in Giochi Matematici  
2012

### OTHERS

Computer Science,  
Italian and English  
"Best in Year" awards  
at SGBIS in 2015

## Hackathons

Google HashCode  
UCL Data Science  
Student Challenge  
HackManchester.com  
StudentHack.com

## Workshops

Arduino and the Internet  
of Things

## Given talks

IBAEM Regional  
Conference 2014

## MOOCs

### Coursera:

Machine Learning  
Cryptography I  
Functional  
Programming  
Principles in Scala

## Volunteering & relevant activities

### STEM Ambassador

STEMNET

01/2016 - present

- Organise activities and talks to inspire young students to pursue a career in a scientific subject and to narrow down the gender gap by engaging girls too.
- I work both in a team and on my own, which gives me the chance to improve my organisational, communication and oratorical skills.

### PASS Leader

The University of Manchester School of Computer Science

09/2016 - present

- Along with my co-leader, I hold weekly one-hour meetings with a group of tutees from the year below. We support their learning process through visual or kinaesthetic activities and we give advice relative to university or life issues. Thus, my leadership and communication skills benefited from this.

### Treasurer

The University of Manchester Photography Society

05/2016 - present

- Manage the society finances and ensure they are spent in the most efficient way.
- Minute all the transactions the society carries out and plot down budgets for the semesters, thus improving my organizational skills and attention to detail.
- Designing and developing the society website and managing its social media profiles.

### Manchester Robot Orchestra

Manchester European City of Science 2016

11/2015 - present

- Participated in the designing phase - my role was to brainstorm about the various tools and technologies that could be used in order to be time and cost-efficient. This project has also featured contributions from Siemens and The Halle Orchestra.

### Welcome Hero & HelpDesk Assistant

The University of Manchester

09/2016 - 09/2016

- During the first week of semester, I am a reference point for the new students: I answer their questions, I point them in the right direction, I make them feel welcome and I give them advice on how to start this new chapter of their life. Through this, I thus developed leadership, communication and customer service skills.

### Hackathons, workshops and talks

United Kingdom, Italy

- Improved my time management and quick self-learning skills in order to make a finished functioning product during hackathons.
- Represented my school in the IBAEM Regional Conference 2014 by giving a talk on how the combination of software and secondary data lead to highly reliable scientific theories, using sunspots as an example.
- Workshops and talks give me stimuli to research more about a variety of different interesting aspects of Computer Science in more depth in my own time.