

# Costanza Maria Improta

UK's Top 10 Computer Science Undergraduate of 2018

## Contacts

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## Programming Competencies

### High Competence:

Java  
Python  
HTML5 & CSS3

### Medium Competence:

PHP & MySQL  
JavaScript & JQuery  
SQL  
C  
LaTeX  
MatLab  
SoapUI

### Low Competence:

ARM assembly  
Verilog  
Scala  
C++  
OpenGL  
Swift  
Ruby  
Drools

## OS

Linux (Ubuntu)  
Mac OS X & iOS  
Windows  
Android

## Software

Azure Machine Learning  
Google Colaboratory

## MOOCs

CS229  
CS231n  
CS224d  
fast.ai

## Education

### The University of Manchester

*BSc in Computer Science with Industrial Experience*

09/2015 - 06/2019

Second Year result: 78.4%

- FYP - a Dense Captioning approach to generate a Descriptive Paragraph of an image.
- Enjoyed ML, Symbolic AI (with NLP), Computer Graphics and Image Processing.
- Strong interest in Data Science, Deep Learning, Web Development and Graphics.
- *Eventlite* - developed in a team a MVC web application for event management, using the Spring framework, Google and Twitter APIs.
- *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 and JUnit.
- *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.

### Beijing Normal University

*Chinese Language and Culture*

03/2016 - 04/2016

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

*International Baccalaureate*

01/2014 - 06/2015

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.

## Work Experience

### Software Engineer

*ISA Software, Paris, France*

07/2017 - 07/2018

ISA Software is an Air Traffic Management Consultancy Company.

- Researched and evaluated ML models to reliably predict air traffic collisions.
- Developed an interactive simulation tool to display and analyse air traffic.
- Developed an automated track analysis and anomaly detection tool.
- Actively participated in meetings with clients.

### Web Developer, Business Analyst, Italian Interpreter

*Wyng43, Hong Kong, HK*

07/2016 - 08/2016

- Wyng43 is a Hong-Kong-based angel investing company where I interned for two months.
- 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.
- In a team, proposed and implemented a model to reduce electricity consumption in their office by 30%.

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## Qualifications

Google Developer  
Challenge Scholarship  
Bertelsmann Data  
Science Challenge  
Scholarship  
Women Techmaker

### LANGUAGES

**Italian:**

Native speaker

**English:**

IELTS

CAE

**French:**

DELFB1

**Chinese:**

A1

### COMPUTER SCIENCE

IBM UTC Prize  
UK's Top 10 CS  
Undergraduate of 2018

### 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 IoT  
From NLP theory to  
chatbots

## Given talks

IBAEM Regional  
Conference 2014

## Volunteering & relevant activities

### PASS 1 Coordinator

*The University of Manchester School of Computer Science*

07/2018 - present

- I manage PASS for 300+ first year students and their second year leaders.
- I lead and run debrief sessions for second year PASS leaders to help them develop and improve their mentoring sessions.
- This improves organizational, communication and public speaking skills.

### 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.

### HackSoc Event Organizer

*HackSoc at The University of Manchester School of Computer Science*

09/2018 - present

- I organise events aiming to bring students and tech industry closer together.

### Student Ambassador, Welcome Hero & HelpDesk Assistant

*The University of Manchester*

09/2016 - present

- During the first week of semester, I am a reference point for the new students, pointing them in the right direction and making them feel welcome.
- Throughout the year, I work in close contact with members of Academic Staff during Interview Days, talking to prospective students about my current experience, taking them for a tour of the building and answering related questions.
- Through this, I thus developed leadership, communication and customer service 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 - 06/2017

- 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.
- 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.