# Costanza Maria Improta

UK's Top 10 Computer Science Undergraduate of 2018 by TARGETjobs and FDM

## Contacts

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## Programming Competencies

**High Competence:**
Java
Python
HTML5 & CSS3

**Medium Competence:**
PHP & MySQL
JavaScript & JQuery
SQL
C
OpenGL
LaTeX
MatLab
SoapUI

**Beginner:**
ARM assembly
Verilog
Scala
C++
Swift
Ruby
Drools

## OS

Linux (Ubuntu)
Mac OS X & iOS
Windows
Android

## Tools

Azure Machine Learning
Google Colaboratory
AWS

## MOOCs

CS229
CS231n
CS224d
fast.ai

# Education

**ETH Zurich**  09/2019 - 12/2020
*MSc in Computer Science - Visual Computing track*

**The University of Manchester**  09/2015 - 06/2019
*BSc in Computer Science with Industrial Experience*
Second Year result: 78.4%

- Third Year Project - "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 and Computer Vision.
- *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* - implemented in a team a 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**  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.

**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.
- Extended Essay (A) on Cryptography.

# Work Experience

**Software Engineer**  07/2017 - 07/2018
*ISA Software, Paris, France*
ISA Software is an Air Traffic Management Consultancy Company.

- Researched and evaluated ML models to reliably predict air traffic collisions.
- Developed and shipped 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**  07/2016 - 08/2016
*Wyng43*, Hong Kong, HK
. 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:**
DELF B1
**Chinese:**
A1

### COMPUTER SCIENCE
IBM UTC Prize
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### 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

## Workshops

Arduino and the IoT
From NLP theory to chatbots

## Given talks

IBAEM Regional Conference 2014

## Volunteering & relevant activities

**PASS 1 Coordinator** — 07/2018 - present
*The University of Manchester School of Computer Science*

- Managed PASS sessions for 250+ year one students and their second year leaders.
- Led and ran debrief sessions for second year PASS leaders to help them develop and improve their mentoring sessions.
- This improved organizational, communication and public speaking skills.

**STEM Ambassador** — 01/2016 - present
*STEMNET*

- Organised 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.
- Worked both in a team and on my own, which gave me the chance to improve my organisational, communication and oratorical skills.

**HackSoc Event Organizer** — 09/2018 - present
*HackSoc at The University of Manchester School of Computer Science*

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

**Student Ambassador, Welcome Hero & HelpDesk Assistant** — 09/2016 - present
*The University of Manchester*

- Was a reference point for the new students, pointing them in the right direction and making them feel welcome.
- Worked 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 developed leadership, communication and customer service skills.

**PASS Leader** — 09/2016 - 06/2017
*The University of Manchester School of Computer Science*

- Along with my co-leader, held weekly one-hour meetings with a group of tutees from the year below, supporting their learning process through visual or kinaesthetic activities and giving advice relative to university or life issues. My leadership and communication skills benefited from this.

**Treasurer** — 05/2016 - 06/2017
*The University of Manchester Photography Society*

- Managed the society finances and ensure they are spent in the most efficient way.
- Minuted all the transactions the society carries out and plot down budgets.
- Designed and developed the society website, and managed its social media profiles.

**Manchester Robot Orchestra** — 11/2015 - 2016
*Manchester European City of Science 2016*

- 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.