

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
Django

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 Zürich

MSc in Computer Science - Visual Computing track

09/2019 - present

- Strong interest in Data Analysis and Visualization, NLP, Computer Vision, Image Processing and UX/UI.

The University of Manchester

BSc in Computer Science with Industrial Experience - First Class Degree

09/2015 - 06/2019

Certificate of Excellence, awarded to top 10% of graduating students

- Third Year Project - "A Dense Captioning Approach to generate a Descriptive Paragraph of an Image"
- *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.

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.
- Extended Essay (A) on Cryptography.

Work Experience

Programming Research Assistant

ETH Zürich, Zürich, Switzerland

09/2020 - present

- Support researchers in coding experiments.

Software Engineer

The University of Manchester, Manchester, United Kingdom

06/2019 - 07/2019

- Built a data-heavy, web-based application, including restricting access to certain views.
- Understood client requirements and interacted with the existing code base (Python).
- Identified missing features and access limitations.
- Designed and developed UI.

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 and shipped an interactive simulation tool to display and analyse air traffic.
- Developed an automated track analysis and anomaly detection tool.

Web Developer, Business Analyst, Italian Interpreter

Wyng43, Hong Kong, HK

07/2016 - 08/2016

- Designed and developed from scratch Wyng43's website.
- In a team, devised a functioning business model for a self-sustained HKU Challenge.
- In a team, proposed and implemented a model to reduce electricity consumption in their office by 30%.

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Qualifications

Google Summer of Code 2020

Google Developer Challenge Scholarship

Women Techmaker

LANGUAGES

Italian:

Native speaker

English:

IELTS

CAE

French:

DELFB1

German:

A2

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

Finalist at HackZurich 2020

Given talks

IBAEM Regional Conference 2014

Volunteering & relevant activities

AMZ Driverless - Core Team

09/2020 - present

Akademischer Motorsportverein Zürich - ETH Zürich Formula Student Project

- Operations - researching sponsorships, approaching clients, managing social media accounts, maintaining website.
- Simulation and Data Analysis - designing a developing a rosbridge for our interactive visualization platform.

PASS 1 Coordinator

07/2018 - 06/2019

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 - 06/2019

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 - 06/2019

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 - 06/2019

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.

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.