

# Max Xiang

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Nationality: EU citizen

## Skills

<b>Machine learning</b>	Scikit-learn, Tensorflow, Keras, DL4J
<b>Programming</b>	Python, C/C++, JAVA, Bash, Matlab, LaTeX
<b>HPC</b>	OpenMP, MPI, CUDA
<b>Web</b>	Flask, HTML, Jinja, REST API
<b>DevOps</b>	GCP, Docker
<b>Languages</b>	English (fluent), Italian (native), Chinese (intermediate)

## Work Experience

### COFCO International

Genève, Switzerland

DATA SCIENTIST

Feb. 2020 - Present

- Implemented pricing models for the Asian option market.
- Built and deployed visualisation tools using Flask.
- Building ETL pipelines using Airflow and Pandas.
- Optimised Python script to reduce missing data from 25% to 4%.

### Yoroi

Cesena, Italy

MACHINE LEARNING INTERN

Nov. 2017 - Jan. 2018

- Developed deep learning models for malware detection.
- Deployed prediction server using Docker container and Apache PredictionIO.

## Education

### The University of Manchester

Manchester, England

MSC IN ARTIFICIAL INTELLIGENCE

2018 - 2019

- Dissertation on human motion synthesis, built an editor with OpenGL for visualising and generating novel animations using motion capture data. Code and written thesis are available on [my github](#).
- Used NLP techniques to mine tweets about Brexit impact on the job market. This involved topic modelling, sentiment analysis and name entity recognition.
- Modules: Machine Learning, Modelling of High-Dimensional Data, Text Mining, Computer Vision, Software Engineering, Agile Development

### University of Bologna

Bologna, Italy

BSC IN COMPUTER SCIENCE AND ENGINEERING

2014 - 2018

- Dissertation in Computer Graphics, involving the development of a virtual reality application for medical imaging diagnosis using Unity 3D and the SteamVR platform.
- Led a team project designing and developing a sandbox physics simulator of the solar system in Java, using the MVC architecture.

## Extracurricular Activity

### Programming tutor

May. 2020 - Present

- Teaching high school students programming using arduino as case study.