# Guim Perarnau

**Machine learning engineer at Bloomberg**


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## Experience

### Machine learning engineer

**Bloomberg**

March 2018 – Present | London, United Kingdom

- Built a ranker that sorts a live influx of news stories (200 per second) according to its relevance. Python, C++.
- Built a large scale end-to-end pipeline that fetches, filters and enriches millions of news from different sources to create a ranking dataset. Python.
- Developed the back-end of a news clustering and summarization model. Designed as well its API for integration with internal services. C++.

### Deep learning and computer vision engineer

**Aframe**

June 2017 – March 2018 | London, United Kingdom

- Designed a face detection and recognition pipeline with faster than real time inference on live streamed video. The model was able to recognize new faces using only one image for training. Python.

### Research engineer (internship)

**Computer Vision Center**

Sept 2014 – June 2015 | Barcelona, Spain

- Developed from scratch a hand detector on a budget RGB camera using machine learning. Accuracy of 97.44%. MATLAB, Python.
- Created a music symbol classifier to read pictures music sheets. It identifies 31 symbols with an accuracy of 91.58%. MATLAB.

## Education

### Pre-PhD

**Computer Vision Center**

Sept 2016 – Dec 2016 | Barcelona, Spain

Extended my master thesis, which was published and selected as an oral presentation in the NIPS Workshop on Adversarial Training.

### M.Sc. in Computer Vision. Grade: 9.11/10

**Autonomous University of Barcelona**

Sept 2015 – Sept 2016 | Barcelona, Spain

Graduated second in the class with 4 honors.

### B.Sc. in Computer Science. Grade: 9.08/10

**Autonomous University of Barcelona**

Sept 2011 – June 2015 | Barcelona, Spain

Graduated first in the class with 25 honors.

## Publications

### Conference Proceedings

- "NSTM: Real-Time Query-Driven News Overview Composition at Bloomberg" (2020). In: *ACL*.
- "Invertible Conditional GANs for image editing" (2016). In: *NeurIPS Workshop on Adversarial Training*.

## Technical skills

Machine / deep learning | Computer vision | Back-end engineering | Git | Pandas

Python | C/C++ | LaTeX

## Honors & awards

**Best final master dissertation** **2016**
Invertible Conditional GANs: change attributes of your face with GANs. Lua (+Torch). Grade: 10/10
`https://github.com/Guim3/IcGAN`

**Top 5 highest academic performance (M.Sc.)** **2016**
2nd position among 29 students.

**Highest academic performance (B.Sc) 2015**
Graduated first of a class of 89 students.

## Projects

### Unreleased video game

**Personal project**

Nov 2017 – Present

Developing a video game completely from scratch as a hobby to fulfill both creative and engineering ambitions. C++.

## Languages

**English: fluent** ●●●●●

**Spanish: native** ●●●●●

**Catalan: native** ●●●●●