

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 according to its relevance. Designed a continuous training, deployment and monitoring pipeline for this ranker. Python, C++.
- 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.

Intern student

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.

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.
- 🏆 **Best final degree project** 2015
Map generation based on images taken with a UAV. MATLAB.
- 🏆 **Highest academic performance (B.Sc.)** 2015
Graduated first of a class of 89 students.

Publications

👥 Conference Proceedings

- Perarnau, Guim et al. (2016). "Invertible Conditional GANs for image editing". In: *NIPS Workshop on Adversarial Training*.

Technical skills

Machine / deep learning Computer vision

Back-end engineering Git

Python C/C++ \LaTeX

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 ●●●●●