

Guim Perarnau

Actively seeking opportunities within research engineering

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Education

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 in:

- Visual recognition
- Machine learning
- Video analysis
- Research dissemination

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, including:

- Machine learning
- Artificial intelligence
- Analysis and design of algorithms
- Computer vision
- High performance computing
- Statistics

Honors & awards

Best final master dissertation M.Sc. in CV, Sept 2016
Invertible Conditional GANs: change attributes of your face (e.g. modify gender) using neural nets. Lua (+Torch). Grade: 10/10
Code available at <https://github.com/Guim3/IcGAN>

Top 5 highest academic performance M.Sc. in CV, Sept 2016
2nd position among 29 students.

Best final degree project B.Sc. in CS, Dec 2015
Map generation based on images taken with a UAV. MATLAB.
Grade: 9.9/10.

Highest academic performance B.Sc. in CS, Dec 2015
Graduated first of a class of 89 students.

Collaboration scholarship Nov 2014 – Feb 2015
A contribution of 2000€ to work on research for a total amount of 450 hours. Given to students with the highest academic grades.

Experience

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 techniques. Obtained an accuracy of 97.44% (windows-based). MATLAB, Python.
- Designed a pattern code identifier on ID cards with a 97.15% of accuracy. MATLAB.
- Created a music symbol classifier as a first step to read handwritten music sheets. It successfully identifies 31 different symbols with an accuracy of 91.58%. MATLAB.

Summary

Recently graduated with honors and focused on the design of machine learning solutions. Seeking opportunities to enhance my skill set on deep learning engineering.

Publications

Conference Proceedings

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

Projects

Traffic sign detector

M.Sc. project

Sept 2015 – Feb 2016

Built a detector using machine learning techniques able to classify 15 traffic signs in real time with 81.05% precision. Python.

Optimizing neural network training

B.Sc. project

Dec 2014 – Jan 2015

Optimized the forward and backpropagation step of an existing neural net implementation, improving its speed by 291%. C (+OpenMP).

Technical skills

Computer vision Machine / deep learning

High performance computing

Python Lua (+Torch) MATLAB

C (+OpenMP) \LaTeX

Languages

English: C1 level ● ● ● ● ●

Spanish: native ● ● ● ● ●

Catalan: native ● ● ● ● ●