Guim Perarnau

Actively seeking opportunities within research engineering

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♀ Barcelona, Spain

github.com/Guim3

in linkedin.com/in/guimperarnau

Grade: 9.11/10

Grade: 9.08/10

Education

M.Sc. in Computer Vision.

Autonomous University of Barcelona

Mark 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.

Autonomous University of Barcelona

Mark Sept 2011 - June 2015

Parcelona, 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 scolarship

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

Mark Sept 2014 - June 2015

Parcelona, 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

m 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

Lua (+Torch) MATLAB Pvthon

C (+OpenMP) **MFX**

Languages

English: C1 level

Spanish: native

Catalan: native