

# Marco Mecchia

## Curriculum Vitae

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📄 <https://github.com/amon80>



*Isn't it enough to see that a garden is beautiful without having to  
believe that there are fairies at the bottom of it too?  
Douglas Adams*

## Education

- Sep. 2014 **Master Degree in Computer Science**, *Università degli Studi di Salerno*,  
Work in progress Specialization: Machine Learning, Average grade: 29.3 out of 30, Exams: 13 out of 13.  
Characterising fields:
- Machine Learning algorithms applied to Neuroscience and Bioinformatics.
  - Linear and Nonlinear optimization.
  - Concurrent and Parallel programming.
  - Robotics.
  - Social Networks theory.
  - Information theory.
  - Data integration and semantic web.
- Sep. 2013 **First level Master**, *Università degli Studi di Salerno*, Project “Messaggeri della conoscenza 2013” “Data Mining for natural disasters”, Grade: A.  
Characterising fields:
- Classification and clustering.
  - Geographical big data.
- Sep. 2011 **Bachelor Degree in Computer Science**, *Università degli studi di Salerno*, Grade: 110 cum laude out of 110.  
Mar. 2014  
Characterising fields:
- Algorithms and Data structures.
  - Object Oriented Programming.
  - Software Engineering.

## Thesis

Title *Viral Marketing: Un algoritmo di approssimazione scalabile per il modello a soglie* | <https://goo.gl/1JmqKI>  
Supervisor Prof. Ugo Vaccaro

## Experiences

### Work

- Mar. 2017 **Erasmus Traineeship**, BRAIN INNOVATION, Maastricht.  
Aug. 2017 Extension of BrainVoyager functionalities through plugin development |  
[https://github.com/amon80/tfce\\_brainvoyager](https://github.com/amon80/tfce_brainvoyager)

### Publications

- Oct. 2016 **Discovering Small Target Sets in Social Networks: A Fast and Effective Algorithm** .  
Cooperated with prof. Ugo Vaccaro et al. | <https://arxiv.org/abs/1610.03721>

## University Projects

- Mar. 2016 **Planning and construction of remote controlled spider robots..**  
Jun. 2016 Planning, construction and programming of two spider robots using STM32 microcontrollers | <https://github.com/amon80/spider-chase> | <https://youtu.be/dk89Rs2audM>  
Dec. 2015 **Inside Nano Visualization Tool.**  
Mar. 2016 Developed a modified version of networkD3 in order to be able to visualize phenotypic interaction between genes | [https://github.com/abelarm/BioInf\\_Project](https://github.com/abelarm/BioInf_Project)  
Nov. 2016 **Non-research disertation on Indipendent Component Analysis.**  
Jan. 2017 Wrote a disertation about Indipendent Component Analysis, and developed contrast function and constraints for MATLAB Optimization Toolbox | [https://github.com/amon80/optimization\\_project](https://github.com/amon80/optimization_project) | <https://goo.gl/wKtu9n>

## Other

- since 2011 **Private Lessons, *Programming Languages and Web Development*, Salerno.**  
Made some private lessons to high school's students with excellent results.

## Technical Skills

- Preferred languages **C, C++, Python, Javascript,  $\text{\LaTeX}$ , GNU R, GNU Octave.**  
Other known languages Java, SQL, HTML, PHP, CSS, JavaScript, XML.  
Frameworks Qt, Open MPI, Apache Hadoop, CUDA, OpenCL, OpenCV, Node.js, Electron  
Dev. Tools QtCreator, Vim, MATLAB, Eclipse, Git.  
Software GIMP, BrainVoyager.  
SO Linux, Windows.

## Communication Skills

- Teamwork Every project has been developed in groups of at least three people.  
Played semi-professional volleyball (C league) for 5 years.

## Languages

- Italian Mother tongue  
English B2 *Excellent text comprehension, fluent conversation*

## Interests

- Tennis.
- Videogames.
- Rock music.
- Currently managing a Youtube Channel dedicated to Video Tutorials (in Italian) | <https://goo.gl/hTGZUi>
- Books.
- Comics.
- Bakery.

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