Daniele **Castrovilli**
BioInformatic

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Web Site 🌐
GitHub: xcloudx8 🎧

Languages
Italian mother tongue
English fluency
French fluency

Programming skills
♥ Python
SQL
PHP
JAVA
C
Matlab
CSS3 & HTML5

Software skills
♥ Atom Editor
Github
Matlab
Microsoft Excel
Pentaho
MySQL
PostgreSQL

About me

I have a degree in bioinformatics at the University of Verona acquiring skills in the field of data analysis , and their manipulation . I implemented databases for genomes and data retrieving from them with PHP, and i learned programming languages such as Python , C , PHP , SQL , Matlab .
My final project was the analysis , by means of proteomic data , the murine cells infected with acute myeloid leukoencephalopathy treated with pantethine IN vivo and EX vivo.
After i worked as a bioinformatics at the hospital in Verona (AOUI) for the analysis of data from patients with cerebrovascular insufficiency .
At last now i'm analyzing data obtained from devices created within the group at Open-BioMedical intiative as a volunteer.

Education

2004–2010	**High school** degree in Scientific studies	Liceo scientifico A. Vallone, Galatina(LE)
2010–2013	**Bachelor** degree in Bioinformatic	Universita' degli studi di Verona, Verona
2014–20xx	**Master** degree in Bioinformatic and medical biotechnology, Bioinformatic curriculum	Universita' degli studi di Verona, Verona

Experience

Universita' degli studi di Verona

Sept 2012-Feb 2013 **Probabilistic technique for studying multiple sclerosis with proteomic data** Universita'
degli studi di Verona, Bachelor degree final project
Bioinformatic
We have studied the effects of the vitamin B5 on murine cell growth both IN
vivo and EX vivo and studied the effects with and without the vitamin
Detailed achievements:
- Learned how to manage huge file in excel
- Learned how to use Matlab for data manipulation

Dec 2015-Mar 2015 **Analysis on bacteriophages and analysis on similarities between viruses attacking
same bacteria.** Universita' degli studi di Verona
Bioinformatic
In this work we have analyzed the similarities between the genomes of the
viruses and the specific host bacteria , and highlight any similarities between
different virus genomes but attacking the same species of bacterium. the
genomes of 300 bacteria and bacteriophages in 1000 were analyzed , with
automation through bash shell scripts , python and analysis through IGTools .
Detailed achievements:
- Learned how to manipulate data with bash shell scripting
- Learned how to use SED, GREP, AWK for data analysis
- Learned how to read and interpret huge amount of data

Sept 2015-Mar 2016 **Report generator** Universita' degli studi di Verona
Bioinformatic
Software for creating a simple pdf file from genomic analysis with NGS for a
patient report, it is written in Python combining the typographic power of Latex.
Detailed achievements:
- Learned how to manage an entire project in Python
- Learned how to use GitHub
- Learned teamwork
- Learned use of web parsers

Sept 2015-Mar 2016 **Variant database** Universita' degli studi di Verona
Bioinformatic
Creation of a simple database written in MySQL and PHP
Detailed achievements:
- Learned better SQL language
- Learned how to use MySQL, PostgreSQL
- Learned PHP
- Learned HTML and CSS3 usage of data retrieval

AOUI, Universitary hospital of Verona

Apr 2013-Jul 2013 **Genome-wide association for metabolic syndrome**   AOUI hospital, Verona
Bioinformatic
Analysis with bioinformatic tools observing the molecule of Interferon and the links with the intracellular receptor explaining better the functionality of this molecule
Detailed achievements:
- Learned how to read genetic population data
- Learned basic usege of Plink

May 2013-Jul 2013 **GWAAS Database Help**   AOUI hospital, Verona
Bioinformatic
Analysis and creation of genetic databases with Hapmap for GWAAS analysis
Detailed achievements:
- Learned how to use HapMap
- Learned better Bash shell scripting

Volunteering

Valunteer   **OpenBioMedical Initiative**   Nowhere
Bioinformatic
Support on developing source code and being a Bioinformatic consultant
Detailed achievements:
- Learned better team management and teamworking

Volunteer   **Ubuntu translator / Bug Tracker**   Nowhere
Volunteer
Support on translating strings in Ubuntu OS and bug discovery.   Detailed achievements:
- Learned how to translate softwares
- Learned better how a community works

Volunteer   **AISM**   Nowhere
Volunteer
Volunteer on the AISM association as care giver