

Daniele Castrovilli

BioInformatic



Contact

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Web Site 

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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 leucoencephalopathy 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 initiative 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

Skills:

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

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 IGTtools .

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, University hospital of Verona

Jul 2016-Oct 2016	Bioinformatic support for data mining <i>Bioinformatic</i> Manipulation, extraction and data visualization about a wide range of data, from metabolic syndrome to child obesity Detailed achievements: <ul style="list-style-type: none">• Learned how to extract useful data and make it understandable with visualization	AOUI hospital, Verona
Apr 2013-Jul 2013	Genome-wide association for metabolic syndrome <i>Bioinformatic</i> Analysis with bioinformatic tools on patients affected by metabolic syndrome Detailed achievements: <ul style="list-style-type: none">• Learned how to read genetic population data• Learned basic use of Plink	AOUI hospital, Verona
May 2013-Jul 2013	GWAAS Database Help <i>Bioinformatic</i> Analysis and creation of genetic databases with Hapmap for GWAAS analysis Detailed achievements: <ul style="list-style-type: none">• Learned how to use HapMap• Learned better Bash shell scripting	AOUI hospital, Verona

Volunteering

Volunteer	OpenBioMedical Initiative <i>Bioinformatic</i> Support on developing source code and being a Bioinformatic consultant Detailed achievements: <ul style="list-style-type: none">• Learned better team management and teamworking	Nowhere
Volunteer	Ubuntu translator / Bug Tracker <i>Volunteer</i> Support on translating strings in Ubuntu OS and bug discovery. Detailed achievements: <ul style="list-style-type: none">• Learned how to translate softwares• Learned better how a community works	Nowhere
Volunteer	AIMS <i>Volunteer</i> Volunteer on the AISM association as care giver	Nowhere

Disclaimers:

This CV has been made entirely with LaTeX