

## ● WORK EXPERIENCE

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06/2020 – CURRENT

**BIOINFORMATICIAN AT MEDICAL GENETICS LAB. – A.O.U. MEYER – A.O.U. MEYER, FIRENZE (ITALY)**

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Main activities:

- Computation and management of clinical NGS data
- Development of support software for exome variants data analysis

04/2019 – 04/2020

**UNIVERSITY RESEARCH ASSISTANT – UNIVERSITY OF VERONA, VERONA (ITALY)**

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Main activities:

- Implementation of CRISPRme, a Web App for off-targets predictive analysis, both at samples and population level, derived from CRISPR genome editing
- Contribution to the development of CRISPRitz, a tool for CRISPR/Cas predictive analysis
- Prototyping of an ST-Connectivity algorithm for static graphs, using APIs from the CUDA tool Hornet
- Programming languages used: Python3, C++, Bash

09/2016 – 10/2016

**UNDERGRADUATE INTERNSHIP – UNIVERSITY OF VERONA, VERONA (ITALY)**

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Main activities:

- Search of genomic and proteomic data (genes, mRNA, SNP, protein primary structures) of Rosaceae
- Implementation of a relational database using Chado schema and CSM Drupal and Tripal

## ● EDUCATION AND TRAINING

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10/2016 – 03/2019

**MASTER'S DEGREE IN MEDICAL BIOINFORMATICS – University of Verona, Verona (Italy)**

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- Thesis: "A parallel tree data structure and a guide profiling for CRISPR/Cas off-targeting analysis"
- Thesis Advisor: Prof. Giugno Rosalba
- Final Grade: 110/110 cum Laude

10/2013 – 11/2016

**BACHELOR'S DEGREE IN BIOINFORMATICS – University of Verona, Verona (Italy)**

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- Thesis: "Design and development of an integrated environment for Rosaceae genomics".
- Thesis Advisor: Prof. Giugno Rosalba
- Final Grade: 105/110

## ● LANGUAGE SKILLS

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Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	B2	B2	B2	B2	B2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

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Programming languages: R, bash and Python

## ● PROJECTS

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**CRISPRme: Population and individual-centric off-target site characterization for CRISPR genome editing**

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<http://crisprme.di.univr.it/>