

## PERSONAL INFORMATION



## Luigi Chiricosta

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🔗 <https://luigichiricosta.github.io/>

💬 Whatsapp, Telegram

Sex M | Date of birth 13/01/1993 | Nationality Italian

JOB APPLIED FOR  
POSITION  
PREFERRED JOB  
STUDIES APPLIED FOR  
PERSONAL STATEMENT

Programmer in medical field, as bioinformatician.

Available for PhD opportunities.

Interested in machine and deep learning, images analysis, software development.

## WORK EXPERIENCE

01/03/2018 –

### Fellowship in “Development of next generation sequencing tools for the diagnosis of neurodevelopmental disorders”

Azienda Ospedaliera di Padova (AOP), Padua, Italy

- Creation of software pipeline (bash, python) to analyse data from gene panel and whole exome even by bioinformatics tools (E.g. samtools)
- Attendance to CAGI (Critical Assessment of Genome Interpretation)

Business or sector Bioinformatics, Computer Science.

01/10/2014 – 30/04/2015

### Programmer

Antlia S.R.L., Milan, Italy

- Operating systems: Windows e Linux
- Programming languages and metalanguages: Android, Java, AJAX, jQuery, JSON, XML, HTML, SQL, MySQL, JavaScript, CSS.
- Other experience: Vaadin, Jboss, Hibernate

Business or sector Programming.

## EDUCATION AND TRAINING

01/10/2015 – 26/09/2017

### Doctor in Bioinformatics (110/110)

Master's degree in Bioinformatics, Alma Mater Studiorum ,Bologna, Italy

- Next-Generation Sequencing (FastQ for raw data (Ion Proton, Illumina), SAM and VCF files)
- Machine learning (Hidden Markov Model, Support Vectors Machines, Artificial Neural Network, Decision trees, Ensemble methods, evaluation of classifiers)
- Personalized medicine (pipeline creation, pattern recognition, in silico prediction, homology modeling, molecular docking)
- Big data
- Cancer genomics (WES data from Baylor College of Medicine and Broad Institute)
- Databases (GnomAD, 1000 Genomes Project, ExAc, ESP, ClinVar, COSMIC, PDB, UNIPROT)
- Tools (ANNOVAR, VCFTools, ContrastRank, PhD-SNP<sup>3</sup>, BLAST, Chimera, Rasmol)
- Operating System (Ubuntu)
- Programming languages (Python, R)
- Neuroscience and Complex Systems courses

01/09/2011 – 26/03/2015

**Doctor in Computer Science (110/110 cum laude)**

Bachelor's degree in Computer Science, University of Messina, Messina, Italy

- Client programming
- Web programming
- Database organization

**PERSONAL SKILLS**
**Mother tongue(s)** Italian

**Other language(s)**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
Spanish	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

**Communication skills**

Good communication skills gained through my experience in programming team during:

- bioinformatics master course
- internship

**Job-related skills**

- Good statistical analysis and programming about cancer genomics acquired during the 8 months of thesis works entitled "Detecting cancer causing genes and variants in Colonadenocarcinoma" using genome/exome data and machine learning procedures on Linux with Python
- Good hardware knowledge acquired by myself during the realization of the computer science thesis project (Arduino, Java and Android-based) titled "L'uomo, i robot e l'intelligenza artificiale" ("Human being, robots and artificial intelligence")
- Firebase server usage
- OpenCV library on Java, Python and Android

**Digital competence**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient	Proficient	Proficient	Proficient	Proficient

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

**Other skills**

- Guitar player graduated by Yamaha level 6 course

**Driving licence**

B

**ADDITIONAL INFORMATION**
**Conferences**

Winter school (as student) during the bioinformatics master entitled "In Silico Markers for Precision Medicine":

- In silico biomarkers: do we know them all?
- Precision medicine in vivo and in vitro
- Computational methods and systems biology
- Search for markers of cancer and genetic diseases
- Markers of cancer and genetic diseases in silico, in vitro and in vivo

**Personal web site**
<https://luigichiricosta.github.io/>