

ELIA GIUSEPPE CERONI

PERSONAL PROFILE

Computer Engineering graduate with a background in Electronics and Automation Engineering.

Passionate about Machine Learning and Artificial Intelligence.

Currently looking for positions in the field of Bioinformatics.

PROGRAMMING LANGUAGES

Python | Good knowledge | Most used libraries: Pandas, Numpy, Matplotlib, Scikit-Learn, Tensorflow, Keras.

MATLAB | Good knowledge

C++ | Basic knowledge

C | Basic knowledge

LANGUAGES

English | Level B2

Spanish | Level A2

HOBBIES AND INTERESTS

Fitness and everything gym related.

Passionate about music and recently began to play bass.

Travelling, especially to Japan.

CONTACT DETAILS

JOB EXPERIENCE

Junior Data Scientist

Institute of Informatics and Telematics, CNR (Pisa) | September 2020 - December 2020

- Reconstruction of gene interaction and regulation networks from transcriptomes of melanoma cell lines.
- Application of Machine Learning-based techniques for the identification of Copy Number Variants from WES data.

EDUCATION

Università degli Studi di Siena

MSc Computer and Automation Engineering - Information systems | October 2018 - April 2020 | Mark: **110L/110**

Thesis project: "Copy Number Variants Detection from Whole Exome Sequencing Data Using Machine Learning Techniques".

Università degli Studi di Firenze

BSc Electronics and Telecommunications Engineering - Automation curriculum | October 2012 - March 2018 | Mark: **90/110**

Thesis project: "Analysis of Cell Lines with Machine Learning Techniques for the Study of the Correlation between Genome and Drug Response".

Liceo Scientifico-Tecnologico | Istituto di Istruzione Superiore Roncalli | Poggibonsi

High school diploma | Mark: **88/100**

PROJECTS

Algorithms for Pairwise Alignments of Biological Sequences | Models and Languages for Bioinformatics Course exam project

Leveraged the Phylo Python library to build the phylogenetic trees of Collagen and Miosin belonging to various taxa starting from their respective aminoacidic sequences, done in cooperation with another student. Exam mark: **30/30**

Huawei University Challenge Participant

Development of a Deep Learning-based Computer Vision system able to identify children that have been left alone in a car, done in cooperation with another student.

Inference of Users Overall Evaluations on Beers | Machine Learning Course exam

Machine Learning-based inference of the overall evaluation of a beers for various users. Built using the Tensorflow and Keras Python libraries. Exam mark: **30L/30**

Beer Recommender System | Big Data Course exam

Simple Python-based User-User and Item-Item recommender system built using the Pandas data analysis package and the Beer Reviews dataset from Kaggle repository. Exam mark: **30L/30**