### Roberto Preste

#### Scientific Software Developer

Python and R enthusiast, always looking for new ways to solve problems through programming.



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### **WORK EXPERIENCE**

### Scientific Software Developer

Enthought &

10/2019 - Present

Cambridge, UK

Achievements/Tasks

 Development of scientific and technical applications involving GUIs, 2D and 3D visualizations, workflow and pipeline architecture, and numerical algorithms

#### Bioinformatician

## ELIXIR Project "Implementation of HmtPhenome"

05/2019 - 06/2019

Bari, IT

Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari

Achievements/Tasks

Design and development of the HmtPhenome resource

#### **Bioinformatician**

## ELIXIR Project "Integration of the ELIXIR-IIB HmtDB resource into RD-Connect"

05/2018 - 06/2018 Bari, IT

Institute of Biomembranes, Bioenergetics and Molecular Biotechnologies, National Research Council

Achievements/Tasks

- Development of an API for the HmtDB resource
- Standardization of data according to RD-Connect specifications

#### Web Developer

# ELIXIR Hub, Wellcome Trust Genome Campus

03/2016 - 09/2016

Cambridge, UK

European Bioinformatics Institute (EBI-EMBL)

Achievements/Tasks

- Design and development of the Bioschemas website
- Design and production of a registry and validation portal for Bioschemas data

#### **EDUCATION**

# Phd Student in Functional and Applied Genomics and Proteomics

University of Bari "Aldo Moro"

11/2016 - 03/2020 Bari, IT

Thesis

Bioinformatics software and tools for Big Data in mitochondrial genomics

#### **SKILLS**

Python Bioinformatics Data Science

Databases Machine Learning R

Software Development Web Development

#### **PUBLICATIONS**

HmtVar: a new resource for human mitochondrial variations and pathogenicity data  $\Box$ 

Nucleic Acids Res, 2018 - DOI: 10.1093/nar/gky1024

NumtS colonization in mammalian genomes  $\square$ 

Sci Rep., 2017 - DOI: 10.1038/s41598-017-16750-2

HmtDB 2016: data update, a better performing query system and human mitochondrial DNA haplogroup predictor ☑

Nucleic Acids Res, 2017 - DOI: 10.1093/nar/gkw1066

#### **PROJECTS**

mitoviz 🗹

 Python package to plot variants on the human mitochondrial genome (https://github.com/robertopreste/mitoviz)

HmtNote ☑

 Python package to annotate human mitochondrial variants from VCF files (https://github.com/robertopreste/HmtNote)

HmtPhenome 🗹

 Web service that builds networks of variants, genes, phenotypes and diseases (https://www.hmtphenome.uniba.it)

HmtVar 🗹

 Database of human mitochondrial variants (https://www.hmtvar.uniba.it)

HmtDB 🗹

 Database of human mitochondrial genomes (https://www.hmtdb.uniba.it)

#### CERTIFICATES

Deep Learning Specialization 🗗

Deep Learning Specialization from deeplearning.ai on Coursera.org (License JEECRT8A86V9)

IBM Data Science Professional Certificate

IBM Data Science Professional Specialization from IBM on Coursera.org (License B63ABDG4TCFR)

Data Science Specialization 🗗

Data Science Specialization from Johns Hopkins University on Coursera.org (License XQJQCG2DM6L5)

EF SET English Certificate - C2 Proficient 🗷

EF Standard English Test (EF SET) 86/100 (C2 Proficient)