# Roberto Preste

Scientific Software Developer

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



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robertopreste.com

github.com/robertopreste 🔘

#### 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"

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 Вагі. ІТ

Thesis

 Bioinformatics software and tools for Big Data in mitochondrial genomics

# Master's Degree in Cellular and Molecular **Biology**

University of Bari "Aldo Moro"

10/2013 - 07/2015 Bari, IT

Bachelor's Degree in Medical and Pharmaceutical Biotechnologies

University of Bari "Aldo Moro"

10/2009 - 07/2013 Bari, IT

# **SKILLS**

Python

Data Science

**Databases** 

Machine Learning

Software Development

Web Development

#### **PUBLICATIONS**

HmtVar: a new resource for human mitochondrial variations and pathogenicity data 🗹

Nucleic Acids Res. 2018 - DOI: 10.1093/nar/akv1024

NumtS colonization in mammalian genomes 🗹

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 2

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)

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

#### CERTIFICATES

Deep Learning Specialization 🗹

Deep Learning Specialization from deeplearning.ai on Coursera.org (License IFECRT8A86V9)

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 XOJOCG2DM6L5)

EF SET English Certificate - C2 Proficient 💆

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

### LANGUAGES

Italian



**English** 

