# Lorenzo Fabbri

San Marino · San Marino lorenzo\_fabbri92@icloud.com lorenzofabbri.github.io @lorenzoF92SM

# Research Interests

# Education

# Università degli Studi di Trento

2017 - 2019

Trento, Italy

- $\bullet\,$  M.Sc. in Quantitative and Computational Biology (110/110 With Honors)
- Thesis: Machine Learning for Predictive Drug-Induced Hepatotoxicity

#### Università della Svizzera italiana

2016 - 2017

Lugano, Switzerland

• Master student in Computational Science

### Università degli Studi di Parma

2012 - 2016

Parma, Italy

- B.Sc. in Biotechnology (103/110)
- Thesis: Whole-body PBPK Modeling of Valproic Acid

# **Continuing Education**

# Image Analysis and Modeling of Complex Biological Dynamics

2017

Wurzburg, Germany

• University of Wurzburg

### Effective High Performance Computing Summer School

2017

Lugano, Switzerland

• CSCS & Università della Svizzera italiana

#### MARVEL School on Variationally Enhanced Sampling

2017

Advanced Course in Alternatives to Animal Experimentation

Lugano, Switzerland 2015

Genoa, Italy

• Università degli Studi di Genova

# Working Experience

### Graduate Research

June 2019-October 2019

Trento, Italy

- Master thesis at the Bruno Kessler Foundation
- Thesis: Machine Learning for Predictive Drug-Induced Hepatotoxicity
- Supervisors: Dr. Cesare Furlanello (FBK), Dr. Marco Chierici (FBK), Prof. Enrico Domenici (UNITN)

# Graduate Research

 $\mathbf{March}\ 2019\mathbf{-May}\ 2019$ 

Heidelberg, Germany

- Internship at the Heidelberg Institute for Theoretical Studies
- Research project: Machine and Deep Learning for Predictive Unbinding Kinetics of Kinases
- Supervisors: Prof. Rebecca Wade (HITS), Dr. Daria Kokh (HITS), Prof. Raffaello Potestio (UNITN)

Lugano, Switzerland

- Student Research Assistant at Università della Svizzera italiana
- Research project: Investigation by Computational Techniques of Channelopaties related to Sodium Channels
- Supervisors: Prof. Vittorio Limongelli, Prof. Daniele Di Marino

# Undergraduate Research

April 2015–August 2015

Aachen, Germany

- Internship and Bachelor thesis at RWTH Aachen University
- Thesis: Whole-body PBPK Modeling of Valproic Acid
- Supervisors: Prof. Elena Maestri (UNIPR), Prof. Lars M. Blank (RWTH), Dr. Henrik Cordes (RWTH)

# Volunteer Experience

#### Italian Society of Vegetarian Nutrition

July 2020-Present

**RETE Civic Movement** 

February 2020-Present

# Skills

# Languages

• Italian: native

• English: C1 (IELTS 7.0)

### Computer Skills

- Programming (basic): R, SAS, C
- Programming (intermediate): MATLAB, Python (Python Scientific Stack)
- Basic knowledge of Scientific Parallel Programming paradigms
- Version Control: GIT
- Machine and Deep learning (basic): Scikit-learn, PyTorch
- Molecular modeling and Cheminformatics (basic): Namd, RDKit
- Typesetting: LATEX, Markdown

# **Epidemiology**

• Molecular Epidemiology: GWAS

# Honors & Awards

#### **Fellowships**

# Student Research Assistant Fellowship

2017

Lugano, Switzerland

• Università della Svizzera italiana

#### **Scholarships**

# Erasmus+ Traineeship Programme Scholarship

2019

Trento, Italy

• Università degli Studi di Trento

# Faculty of Informatics Scholarship

2016-2017

Lugano, Switzerland

• Università della Svizzera italiana

#### Erasmus Traineeship Programme Scholarship

2015 Parma, Italy

• Università degli Studi di Parma

# **Publications**

[2] Christoph Thiel et al. "A comparative analysis of drug-induced hepatotoxicity in clinically relevant situations". In: *PLoS computational biology* 13.2 (2017).

# **Conference Presentations**

[1] Lorenzo Fabbri et al. "Efficient and Portable MPI Support for Approximate Bayesian Computation". In: PASC17. 2017.