



Riccardo Aucello

Curriculum Vitae

Personal information

Nationality: Italian

Data of birth: 27 August 1994

Gender: Male

Place of birth: Torino (TO) ITALY

Driving licence: B

Current position: PhD Student at the Department of Computer Science in the Università degli Studi di Torino (Phd program *Complex Systems for Quantitative Biomedicine*)

Interests

His interest is mainly focused on molecular biology and computational systems biology. In particular he is interested in modelling and simulation of complex biological systems and applications for:

- Modelling languages in systems biology;
- Data integration and analysis;
- Computational and mathematical techniques to analysis the behaviour of complex systems;

He is interested in tissue growth through a multi-level modelling approach considering the dynamics occurring among the different subpopulations of cells and regulatory networks describing cellular events in homeostasis and pathology. Moreover, he involved on designed computational and workflows for an integrated framework for host-microbiota analysis with particular emphasis on metabolic modelling.

Education

1th January 2022 - current

Ph.D. in Complex Systems for Quantitative Biomedicine 37th CYCLE, Università degli studi di Torino. The 37th CYCLE Ph.D. program is by (PON - D.M. 1061/21) - GREEN TOPICS
Supervisors: Geuna S., Ronchi G., Beccuti M. and Cordero F.

13th July 2021

Master Degree in Cellular and Molecular *Biology*, Università degli Studi di Torino.
Title: *A unified complex model to study the inter-dependencies among microbiome communities, host health and disease.*
Supervisors: Beccuti M. and Cordero F.
Degree: 103/110

31th March 2017

Bachelor Degree in Biological Science at the Università degli Studi di Torino.
Title: *Teorie della complessità ed inferenze evolutive (Complexity Theories and Evolutionary Inferences).*
Supervisors: Cervella P.
Degree: 97/110

14th July 2013

High School Graduation, 76/100, I.T.I.S. AMEDEO AVOGADRO di Torino

Other Training

15th May 2019

Open Badge Upgrade English B2 in Upgrade English B2 Level, at Centro Linguistico (CLA-UniTO) Università degli Studi di Torino.

Professional experiences

13th October 2021 - 1th January 2022

Scholarship: Contributo Fondazione CRT Il tornata 2019 RF. 2019.2292 “Sviluppo di un framework computazionale per la modellazione e lo studio della febbre West Nile”, Department of computer science at the Università degli Studi di Torino

Computer skills

Programming

Basic: Python, LATEX, Matlab, C++

Intermediate: R, bash

Operative Systems

Linux, Windows, macOS

— Languages skills

Native Speaker: Italian

Intermediate: English

— Publications

Contributions to conference proceedings

- Aucello R., Pernice S., Tortarolo D., Lio' P., Beccuti M., Cordero F. A new modeling paradigm to integrate metabolic networks and dynamic models using GreatMod framework. BITS (Bioinformatics Italian Society) annual meeting 2022, Verona, Italy, June 27-29, 2022. **Best Poster Award.**
- Aucello R., Pernice S., Tortarolo D., Liò P., Beccuti M., and Cordero F. A new modelling paradigm to study complete and harmonious whole biological systems. 8th Annual SysMod Meeting @ISMB/ECCB 2023 - Computational modeling of Biological Systems, Lyon, France, Jul 23, 2023 - Jul 27, 2023. **Best Poster Award.**