MATTIA CORIGLIANO

MSC STUDENT IN PHYSICS
Università degli studi di milano

PERSONAL INFORMATION

Date of Birth: May 20 1996
Nationality: Italian
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CURRICULUM VITAE

EDUCATION

Master's degree in Physics
October 2019 - Present
Università degli Studi di Milano
Milan, Italy

The thesis project, under the supervision of Prof. Grilli (ICTP, Trieste), focuses on the link between resource availability and species diversity in microbial communities.

Bachelor's degree in Physics
final grade: 110/110 cum laude
October 2015 - April 2019
Università degli Studi di Milano,
Milan, Italy

Thesis title: "A Statistical Physics Approach to Drug Resistance and Drug Tolerance in Cancer"

The thesis work was part of an interdisciplinary collaboration between Prof. Cosentino Lagomarsino's Statistical Physics group (IFOM, Milan) and Prof. Bardelli's Molecular Oncology Lab (IRCCS Candiolo)

Scientific High School
October 2010 - July 2015
Liceo Scientifico e Classico "Ettore Majorana"
Desio (MB), Italy

"In Action with Math" project
October 2013-February 2014
Politecnico di Milano
Milan, Italy

Course "Let's face complexity" composed of two units: 1) Exploratory data analysis with R 2) Population Dynamics

AWARDS

Borsa di studio di Ateneo a.a. 2020/2021
University scholarship for the best 5% Master students

RESEARCH ACTIVITY

M. Russo, G. Crisafulli, A. Sogari, N. M. Reilly, S. Arena, S. Lamba, A. Bartolini, V. Amodio, A; Magrì, L. Novara, I. Sarotto, Z. D. Nagel, C. G. Piett, A. Amatu, A. Sartore-Bianchi, S. Siena, A. Bertotti, L. Trusolino, M. Corigliano, M. Gherardi, M. Cosentino Lagomarsino, F. Di Nicolantonio, A. Bardelli.
Adaptive mutability of colorectal cancers in response to targeted therapies.
Science 366 6472, 1473-1480 2019

M. Russo, S. Pompei, A. Sogari , M. Corigliano , G. Crisafulli A. Bertotti, M. Gherardi, F. Di Nicolantonio, A. Bardelli, and M. Cosentino Lagomarsino
Drug Induced Colorectal Cancer Persister Cells Show Increased Mutation Rate.
To be published

TEACHING

Speaker (Dec 2020 - present)
Liceo Scientifico e Classico "Ettore Majorana" Desio (MB), Italy

- Advanced seminars on modern applications of Statistical Physics and Machine Learning. Covered topics include MAXENT models, Stochastic Modelling of Cancer, Quantum Information and Machine Learning.

Teacher (Nov 2019 - present)
Liceo Scientifico e Classico "Ettore Majorana" Desio (MB), Italy

- Physics Course for advanced high school students.

SKILLS

Interdisciplinary teamwork

Coding Languages and Software
Python, C++, HTML/CSS
Office Suite, LaTex, Mathematica, R

Languages
Italian: Mother tongue
English: advanced, written and spoken

Hereby I authorize the processing of my personal data and particular data included in my curriculum vitae according to the italian legislative decree 30 June 2003, n. 196 and the GDPR (UE regulation 2016/679) on the protection of personal data.

May 1, 2021

Mattia Corigliano