



Alessandro Caioli



WORK EXPERIENCE

31/10/2024 - CURRENT Roma, Italy

PhD Student in Network Oncology and Precision Medicine Sapienza Università di Roma

01/06/2024 - CURRENT Rome, Italy

Biostatistician INMI Lazzaro Spallanzani - Department of Epidemiology and Public Health

- Statistical analysis
- Data analysis
- Data visualisation
- Data management

01/04/2022 - 01/06/2024 Rome, Italy

Data analyst INMI Lazzaro Spallanzani - Dipartimento di Malattie Infettive e Microbiologia

- Data analysis
- Statistical analysis
- Data visualisation
- Data management

EDUCATION AND TRAINING

01/09/2021 - 19/03/2024 Rome, Italy

Master's Degree in Data Science Sapienza Università di Roma

- Neural Networks design and implementation (FeedForward, CNN, RNN, LSTM Networks)
- Data Analysis
- Network Medicine
- Statistical Analysis
- Optimization Methods
- Signal Processing
- Cloud computing

Website <https://www.uniroma1.it> | **Final grade** 107 | **Thesis** Identification of disease gene-gene interactions using graph learning on domain knowledge graphs

09/10/2019 - 15/07/2021 Rome, Italy

Bachelor's Degree in Bioinformatics Sapienza Università di Roma

Website <https://www.uniroma1.it> | **Field of study** Bioinformatics | **Final grade** 110/110
approach for drug repurposing and its application to thyroid cancer

31/01/2019 - 16/05/2019

Deep learning specialization Coursera

Website <https://www.coursera.org/>

18/12/2022 - 19/03/2023

Biostatistics in public health Coursera

Website <https://www.coursera.org/>

09/03/2022 - 01/05/2022

Statistical analysis with R for public health Coursera

Website www.coursera.org

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening C2

Spoken production C2

Reading C2

Spoken interaction C2

Writing C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Access | Microsoft Excel | LaTeX

PROGRAMMING LANGUAGES AND FRAMEWORKS

Python | R | SQL | Deep Learning frameworks: Pytorch, Tensorflow, Keras

PUBLICATIONS

2022

● [Exploratory pharmacovigilance with machine learning in big patient data: A focused scoping review](#)

2022

● **Approccio terapeutico dell'epatite delta**

Oral presentation at the XXI SIMIT (Società Italiana Malattie Infettive e Tropicali) congress

2022

● **Vaccinazione per SARS CoV-2 nei pazienti trapiantati di fegato HIV positivi: stessa risposta e durata**

Poster at the XXI SIMIT (Società Italiana Malattie Infettive e Tropicali) congress

2023

● [Humoral Immune Response after COVID-19 mRNA Vaccination in Patients with Liver Cirrhosis: A Prospective Real-Life Single Center Study](#)

2023

● ["Real world" efficacy of bulevirtide in HBV/HDV-related cirrhosis including people living with HIV: Results from the compassionate use programme at INMI Spallanzani in Rome, Italy](#)

2023

● **Viral load decrease in SARS-CoV-2 Omicron infection after early treatment with monoclonal antibodies and antiviral agents in solid organ transplant recipients**

Oral presentation at the 6th GISA (Gruppo Italiano per la Stewardship Antimicrobica) congress, where it was ranked among the best eight presentations, and at the XXII SIMIT (Società Italiana Malattie Infettive e Tropicali) congress.

2023

● **L'evoluzione del trapianto epatico nei pazienti che vivono con infezione da HIV: l'esperienza del polo ospedaliero interaziendale trapianti di Roma**

Oral presentation at the XXII SIMIT (Società Italiana Malattie Infettive e Tropicali) congress.

2024

Incidence of hepatocellular carcinoma in patients with hepatitis C treated with direct antiviral agents: results of a long term prospective study period

Poster at the 2024 EASL (European Association for the Study of Liver) congress

2024

Reactogenicity and Immunogenicity Against MPXV of the Intradermal Administration of Modified Vaccinia Ankara Compared to the Standard Subcutaneous Route