



Francesca Brunetti

✉ Email: francesca.brunetti@uniroma1.it 🐙 Github: <https://github.com/Franci-B>

🌐 LinkedIn: www.linkedin.com/in/francesca-brunetti-ab8b13206

👤 ORCID: www.orcid.org/0000-0001-9067-6343

Gender: Female Date of birth: 5 Jan 1998 Nationality: Italian

EDUCATION AND TRAINING

[Nov 2022 – Current]

Ph.D. student in Infectious Diseases, Microbiology, Legal Medicine and Public Health Sciences

Sapienza University of Rome

City: Rome | Country: Italy |

38th Ph.D. cycle

Supervisor: Prof. [Maria Pia Conte](#)

Co-Supervisor: Dr. [Karel Břinda](#)

Venue: Computational Microbiology Lab (Microbiology section), [Department of Public Health and Infectious Diseases](#), [Sapienza](#) University of Rome

Theme: Innovative modelling, statistical and/or bioinformatic approaches in the study of infectious disease and public health

[Sep 2020 – Jul 2022]

MSc in Bioinformatics

Tor Vergata University of Rome

City: Rome | Country: Italy | Final grade: 110 with honours / 110

Thesis project: "Genotypic characterization of *Staphylococcus aureus* strains from patients affected by atopic dermatitis"

Thesis Advisors: prof. Maria Pia Conte, Dr. Massimiliano Marazzato

Thesis Internship duration: 9 months (October 2021 - July 2022)

Venue: Computational Microbiology Lab (Microbiology section), Department of Public Health and Infectious Diseases, Sapienza University of Rome

Area: Genomics, Microbiology

[Sep 2016 – Oct 2019]

BSc in Bioinformatics

Sapienza University of Rome

City: Rome | Country: Italy | Final grade: 110 with honors / 110

Thesis project: "Characterization of the Nasal Microbiota in children with chronic nasal inflammation: role of adenoid hypertrophy and allergic rhinitis"

Thesis Advisors: prof. Maria Pia Conte, Dr. Massimiliano Marazzato

Thesis Internship duration: 6 months (May - October 2019)

Venue: Computational Microbiology Lab (Microbiology section), Department of Public Health and Infectious Diseases, Sapienza University of Rome

Area: Metagenomics, Microbiology

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BSc entirely held in English.

PHD EXPERIENCE - RE-SEARCH PERIOD ABROAD

[Nov 2023 – Nov 2024]

Research period at INRIA centre at Rennes University

Supervisor: Dr. [Karel Brinda](#) ([Genscale](#) team)

Institute: [INRIA centre](#) at Rennes University, Rennes (France)

UNDERGRADUATE RE-SEARCH EXPERIENCE

[Jan 2020 – Apr 2021]

Training Experience in Computational Microbiology

Venue: Computational Microbiology Lab (Microbiology section), Department of Public Health and Infecious Disease, Sapienza University of Rome

Tutor: Dr. Massimiliano Marazzato

Themes: Application of bioinformatic techniques for the analysis of microbial organisms.

Gained Experience: NGS analyses starting from raw data; Genome assembly; Characterization of single microorganisms (WGS analysis) or/and microbial communities (16S Metagenomics analysis); Comparative genomics; Pangenomics analysis.

HONOURS AND AWARDS

[May 2021]

Undergraduate Research Fellowship Awarding institution: Sapienza University of Rome

Undergraduate Research Fellowship

Duration: 6 months (May - October 2021)

Supervisor: prof. Anna Teresa Palamara

Venue: Computational Microbiology Lab (Microbiology section), Department of Public Health and Infecious Disease, Sapienza University of Rome

Themes: Application of bioinformatic techniques for the analysis of microbial organisms.

Gained Experience: NGS analyses starting from raw data; Genome assembly; Characterization of single microorganisms (WGS analysis) or/and microbial communities (16S Metagenomics analysis); Comparative genomics; Pangenomics analysis.

PEER REVIEW ACTIVITIES

[May 2023 – Current]

Peer reviewer for Ecotoxicology and Environmental Safety

[Dec 2023 – Current]

Peer reviewer for PLOS Computational Biology

SUPPLEMENTARY TEACH-ING ACTIVITIES

[Nov 2022 – Current]

Laboratory sessions for Dentistry and Dental Prosthodontics students

Theme: Introduction to Computational microbiology and its applications

Activity: Laboratory sessions held for the students from the "*Microbiology and Hygiene*" course (MED/07), MSc in Dentistry and Dental Prosthodontics, Sapienza University of Rome

Course teacher: Prof. Maria Pia Conte, Associate professor

[Nov 2022 – Current]

Laboratory sessions for Biotechnology students

Theme: Introduction to Computational microbiology and its applications

Activity: Laboratory sessions held for the students from the "*General microbiology, microbial biotechnology and elements of medical microbiology I*" course (MED/07), BSc in Biotechnology, Sapienza University of Rome

Course teacher: Prof. [Catia Longhi](#), Associate professor

PROJECTS

[Jan 2021 – Jun 2021]

MSc Bioinformatics website development

Aim: Development of the new [official website](#) for the MSc in Bioinformatics, [Tor Vergata](#) University of Rome.

Supervisor: prof. Andrea Cabibbo, Tor Vergata University of Rome

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1