CV BUFFA EDOARDO

CURRICULUM VITAE

PERSONAL INFORMATION

Buffa Edoardo

- **EDUCATION**

Date: 17/10/2024
Master Degree in Veterinary Medicine (Class LM-42)
Department of Veterinary Medicine and Animal Science, Università degli Studi di Milano, Italy
Grade: 106/110
Title of Master Degree Thesis: "Infezioni parassitarie di origine alimentare nella carne equina: studio sulla presenza di *Toxoplasma gondii* e *Sarcocystis* spp. nei prodotti in vendita nella grande distribuzione organizzata (Tutor: Dr. Alessia Libera Gazzonis)"

- **OTHER TRAINING**

Date: 05/02/2024-16/02/2024
Name of the training course: "Data Science: R Basics" (Course instructor: Professor Rafael Irizarry)
Hours of training: 16h
Provided by: Edx, Harvardx, USA
Grade: Successfully completed and received a passing grade, certificate: https://courses.edx.org/certificates/beec632bafa147479336f3bf89d113d7
Description: The course was focused on learning basic R syntax, foundational R programming concepts (data types, vectors arithmetic, indexing) performing operations in R including (sorting, data wrangling using dplyr, making plots)

- **CURRENT POSITION(S)**

Date: 01/11/2024-Ongoing
PhD Student,Department of Veterinary Science, Università degli Studi di Torino,Italy
Title of the PhD project: "Bovine Cysticercosis: Tackling an Age-Old Challenge with Modern Tools"

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- **PREVIOUS RESEARCH AND PROFESSIONAL POSITION(S) / PARTICIPATION TO RESEARCH GROUPS / FELLOWSHIP(S)** ***(if applicable)***

Date: 01/01/2024 – 31/10/2024 **Position: Research Fellowship – Type B (Assegnista di Ricerca,1 year)**
Department of Veterinary Medicine and Animal Science, Università degli Studi di Milano, Italy
Title of the project: *"Updates on bovine besnoitiosis in Italy: novel insights into putative hosts and mechanical vectors of a neglected disease"* (BESNOBIT). Prin 2022, Sector LS6 (October 2023 – September 2025).
Tutor: Dr. Alessia L. Gazzonis.

Description: Research project of national interest aimed at updating current knowledge on bovine besnoitiosis in Italy, the epidemiology of *Besnoitia besnoiti* in target host species (cattle, buffalo, and donkey), and the implementation of guidelines for an integrated, sustainable, and effective control of the disease. Forecast activities for the fellowship are: 1) inspections of farms and collection of individual and company-specific data; 2) sampling of biological material at slaughterhouses; 3) laboratory analysis of the collected samples (ELISA,PCR) 4) processing and statistical analysis of the obtained data.

Simultaneously, Dr. Buffa was actively involved in research activities conducted by the research group, including the following projects:

- Title: "*Study on the spread of anthelmintic resistance, stable management, and welfare of horses raised in Lombardy"*. Research support plan 2021, Call Line 2, Action A, Department of Veterinary Medicine and Animal Sciences, Università degli Studi di Milano (July 2022 - December 2023).
  Responsible: Dr. Alessia L. Gazzonis.
  Aim of the project: Coordination of an epidemiological study on the spread of anthelmintic resistance in stabled horses in Lombardy and the relationship between parasitism, stable management, and animal welfare.
  Activities: Dr. Buffa handled copromicroscopic parasitological analyses and morphometric characterization.
- Title: "*Development of innovative integrated approaches to control gastro-intestinal parasites and to prevent the onset of anthelmintic resistance in small ruminants" (PARALT*), Prin 2022 PNRR Call, Sector LS9 (December 2023 - November 2025).
  Responsible: Dr. Antonio Bosco, University of Naples "Federico II".
  Aim of the project: development of an innovative integrated approach for the control of parasitic infestations in small ruminants and for the prevention of the development of anthelmintic resistance.
  Activities: Dr. Buffa handled copromicroscopic parasitological analyses.

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13/03/2024 – 31/10/24

Hospital Laboratory Diagnostic activities

Veterinary Teaching Hospital of the Università degli Studi di Milano, Department of Pathology and Laboratory Diagnostics, Parasitology Service.

Description: The diagnostic activity carried out by Dr. Buffa concerns the diagnosis of parasitic diseases (helminthic, protozoan, ectoparasitic) in domestic carnivores, horses, non-conventional animals, livestock, and laboratory animals, fish species, and animal origin products. Copromicroscopic techniques such as quantitative flotation (centrifugal flotation, FLOTAC, MINI-Flotac, sedimentation, Baermann), hematological techniques (modified Knott technique), morphological identification of parasites are used. In addition, serological/immunological techniques (ELISA, Western Blot, direct and indirect immunofluorescence tests, immunochromatographic tests) are applied for the diagnosis of protozoal diseases (cryptosporidiosis, giardiasis, toxoplasmosis, besnoitiosis, neosporosis) and vector-borne diseases (dirofilariasis, leishmaniasis, ehrlichiosis, babesiosis, anaplasmosis, borreliosis), and molecular biology techniques (end-point PCR, Real-Time PCR) for the identification of various parasites.

01/01/2023- 31/01/2024

Voluntary internship at the Parasitology and parasitic diseases laboratory

Department of Veterinary Medicine and Animal Science, Università degli Studi di Milano, Italy

Description: Participation in parasitological diagnostic activities focused on parasitic diseases, including helminthic, protozoan, and ectoparasitic infections, with a specific emphasis on farm animal species. Concurrently, involvement in voluntary internship and research activities aimed at the development of a thesis.

- **PRESENTATION OF PAPERS, POSTER, GIVEN SPEECHES AT CONFERENCES AND SEMINARS**
  - A.L. Gazzonis, A. Cafiso ,**E. Buffa**, M.T. Manfredi.
    Title: Foodborne Parasites in horse meat: investigating *Toxoplasma gondii* and *Sarcocystis* spp. presence in Large Scale Retail Products
    77th Congress of the Italian Society of the Veterinary Sciences (SISVet), 12-14 June 2024, Parma, Italy.
    Poster session.

  - A.L. Gazzonis, A. Cafiso, **E. Buffa**, M.T. Manfredi.
    Title: *Toxoplasma gondii* and *Sarcocystis* spp: exploring hidden dangers in large-scale retail horse meat.
    XXXIII Congress of Italian Society of Parasitology (SOIPA), 18-21 June 2024, Padova, Italy.
    Poster session.
  - A.L. Gazzonis, G. Morganti, M.E. Falomo, A. Frangipane di Regalbono Antonio, L. Ciuca, F. Buono, **E. Buffa**, V. Calgaro, A. Giordano, G. Sironi, V. Veneziano.

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Title: Equine Besnoitiosis in donkeys: clinical and laboratory findings in a case-study stable XXXIII Congress of Italian Society of Parasitology (SOIPA), 18-21 June 2024, Padova, Italy. Oral presentation**.**

- **LANGUAGE SKILLS**

Native speaker: Italian

Other language(s):

- **English, (B2)**
  Certification: B2 IELTS Academic: Overall Band Score 6.5/9 CEFR Level B2 (2017)
- **French (A2)**

- **SOFT SKILLS**

Communication, Organizational skills and Teamwork ability
During his previous internship and the current fellowship, Dr. Buffa enhanced his communication, through scientific writing, production of scientific content on social media platforms for his main project (BESNOBIT) and participation to academic conferences. He sharpened organizational abilities, planning activities precisely, managing multiple projects simultaneously and adhering to stringent deadlines. He embraced teamwork, fostering collaboration by sharing ideas and listening actively to others perspective during coworker meetings and partnerships with colleagues from various universities.
Additionally, he had already begun developing these competencies during his studies through his involvement in the IVSA Italy and IVSA Milan associations, assuming roles as board member and seminar organizing committee member (Dates: September 2020-2022)

IT Skills

- Excellent knowledge of Windows, Linux and Mac OS operating systems. Good knowledge of the Office package (Word, Power Point, Excel), ability to organize the data collected in a database.
- Web page development (Wordpress, Wix, Canva), creation of digital content and infographics (Canva).
- Data analysis skills: Read, extract, and create datasets in R, perform a variety of operations and analyses on datasets, write functions using R software.