

# Curriculum

---

## SKILLS

<b>Tools and Languages</b>	Python, Fortran, $\text{\LaTeX}$ , R, MatLab
<b>Research topic</b>	Machine Learning, Data Analysis, Quantitative analysis of behavior
<b>Communication</b>	English, Italian

## EDUCATION

**PhD in Chemical and Pharmaceutical Sciences and Biotechnology** **November 2020 - Present**

University of Camerino, Camerino, Italy  
International School of Advanced Studies  
Department of Experimental Medicine and Public Health  
Supervisor: Prof. Massimo Ubaldi

**Master Degree on Physics, University of Camerino** **October 2017 - October 2020**

110/110,  
Title: Engineering the noise of a cavity field by means of a digital feedback,  
Advisor: Prof. Giovanni di Giuseppe

**Bachelor Degree on Physics, University of Camerino** **October 2013 - April 2017**

110/110,  
Title: Rumore quantistico in interferometri per la rilevazione di onde gravitazionali,  
Advisor: Prof. David Vitali

## RESEARCH EXPERIENCE

**Visiting Ph.D. student, University of Geneva** **April 2023 - September 2023**

Advisor: Prof. Camilla Bellone

## POSTER PRESENTATION

**Della Valle, A., De Carlo, S., Petetta, F., Ciccocioppo, R., Ubaldi, M. (2022)** Deep Learning approach for the recognition of behaviours in Forced Swim Test. *41° Congresso Nazionale della SIF*, 16-19 November 2022, Rome, Italy

## PUBLISHED PAPER

Toivainen, S., Xu, I., Gobbo, F., **Della Valle, A.**, Coppola, A. Heiling, M., Domi, E. (2024) Different mechanisms underlie compulsive alcohol self-administration in male and female rats. *Biology of Sex Differences*

De Carlo, S. Mrizak, H., **Della Valle, A.**, Lunerti, V., Mammoni, A., Kyrtzi, M. O., Lacorte, A., Keshishian, A., Li, M., Woods, L. S., Soverchia, L., Domi, E., Ubaldi, M., Ciccocioppo, R., Cannella, N. Predicting individual treatment response in alcohol use disorders: a reverse translational proof-of-concept study. *Submitted to Biomedicine Pharmacotherapy*

## AWARDS

Borsa per i migliori poster presentati nell'ambito del 41° Congresso Nazionale della SIF **November 2022**

Società Italiana di Farmacologia

Rome, Italy

# Curriculum

---

## CONFERENCES AND COURSES ATTENDED

---

<b>Conference INSERM workshop 276</b> Bordeaux, France	October 2023
<b>41° Congresso Nazionale della SIF</b> Rome, Italy	November 2022
<b>Neuromatch Academy Deep Learning</b> Online Summer School	July 2022
<b>7th international conference in machine learning, optimization data science LOD 2021</b> Grasmere, Lake District, England – UK	October 2021
<b>1st international advanced course symposium on Artificial Intelligence Neuroscience ACAIN 2021</b> Grasmere, Lake District, England – UK	October 2021
<b>4th Advanced course on Data Science and Machine learning</b> University of Pisa, Italy	July 2021
<b>Cajal week</b> Project Encephalon, India	May 2021
<b>SuperFluctuations 2017</b> Fluctuations and Highly Non Linear Phenomena in Superfluids and Superconductors, University of Camerino	October 2017

## TEACHING ACTIVITIES

---

<b>Instructional tutorial of Physics</b> <i>University of Camerino</i> <ul style="list-style-type: none"><li>• Mechanics (Physics 1)</li></ul>	October 2021 — January 2022 <i>Camerino, Italy</i>
<b>Instructional tutorial of Physics</b> <i>University of Camerino</i> <ul style="list-style-type: none"><li>• Mechanics (Physics 1)</li></ul>	October 2020 — January 2021 <i>Camerino, Italy</i>
<b>Instructional tutorial of Physics</b> <i>University of Camerino</i> <ul style="list-style-type: none"><li>• Fluid dynamics e Thermo dynamics (Physics 1)</li></ul>	March 2020 — June 2020 <i>Camerino, Italy</i>
<b>Instructional tutorial of Physics</b> <i>University of Camerino</i> <ul style="list-style-type: none"><li>• Mechanics (Physics 1)</li></ul>	October 2019 — January 2020 <i>Camerino, Italy</i>
<b>Instructional tutorial of Physics</b> <i>University of Camerino</i> <ul style="list-style-type: none"><li>• Physics 1</li></ul>	October 2018 — June 2019 <i>Camerino, Italy</i>