



Tommaso Moretti

EDUCATION AND TRAINING

01/10/2017 – 29/09/2021 Perugia, Italy

● **Bachelor degree** University of Perugia

The specific educational objectives of the cds aim at achieving a good basic methodological preparation, with constantly updated and high-quality cultural content, which allows students to master the main aspects of the different areas of Chemistry. The preparation achieved, which also includes the fundamental elements of mathematics, physics and computer science proper to scientific training, is appropriate both to the profitable deepening of the studies in the subsequent training cycle (Master's Degree or Euromaster Chemistry) both entering the labor market in professional fields that require chemical, theoretical and laboratory skills, and familiarity with the scientific method and with notions and physical-mathematical and computer tools.

Address Piazza dell'Università, 1 - 06123 Perugia - ITALIA, 06135, Perugia, Italy | **Website** <http://www.dccb.unipg.it/> | **Field of study** Chemistry |

Final grade 95/110 **Thesis** Study and validation of in silico methods to predict the tautomerization of organic compounds

01/09/2021 – 26/09/2023 Perugia, Italy

● **Master degree** University of Perugia

Computational chemistry is a multidisciplinary field that combines principles of chemistry, physics, and computer science to simulate and predict the behavior of chemical systems using computational models and algorithms.

Computational chemistry is revolutionizing the way we understand and explore the intricacies of chemical systems by leveraging advanced algorithms, quantum mechanics, molecular dynamics simulations, and machine learning techniques. This field enables researchers to investigate molecular structures, reaction mechanisms, spectroscopic properties, and even design new molecules with tailored properties, all through the power of computational simulations. By providing invaluable insights and predictions, computational chemistry significantly accelerates the discovery and development of new drugs, materials, catalysts, and environmentally sustainable solutions. Furthermore, it plays a pivotal role in optimizing chemical processes, reducing experimental costs, and guiding experimental design, ultimately leading to more efficient and cost-effective outcomes

Address Piazza dell'Università, 1, 06123, Perugia, Italy | **Website** <http://www.dccb.unipg.it/> | **Field of study** Inter-disciplinary programmes and qualifications involving natural sciences, mathematics and statistics |

Final grade 110/110 | **Level in EQF** EQF level 7 | **Type of credits** CFU

Number of credits 120 **Thesis** Computational approach of storage systems

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

Other language(s):

English

Listening C1

Reading C1

Writing B2

Spoken production B2

Spoken Interaction B2

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

DIGITAL SKILLS

Google Drive | Microsoft Word | Google Docs | LinkedIn | Outlook | Conoscenza del sistema LINUX | Organizational and planning skills | Instagram | Good listener and communicator | Team-work oriented

MICROSOFT OFFICE

Microsoft Excel | Microsoft Powerpoint | Zoom

ADDITIONAL INFORMATION

Placements and Internships

08/2015 - 09/2015

training internship Tecnocibus Srl chemical and microbiological analysis sector Agrofood

Analysis of food samples, environmental analyses, laboratory administrative management

Link <https://www.tecnocibus.it/>

08/2016 - 09/2016

Internship Institute Zooprofylactic of Umbria and Marche: diagnostics department

Collection of necroscopic samples, preparation of bacterial seeds, analysis and detection of bacterial strains of interest, preparation of samples for subsequent analysis, sample preparation and use of HPLC and PCR

Link <https://www.izsum.it/IZSUM/>

20/07/2021 - 25/08/2021

Internship Institute Zooprofylactic of Umbria and Marche: UOC Officina Farmaceutica - In laboratories C10TERR (Cultivation Land Production Centre), C10VACC (Stabulogenic Vaccine Production Centre) - C10PAK (Antigen Production Centre/Diagnostic Kits)

The aim of the internship was to acquire theoretical and practical knowledge in the field of the production of perform microbiological tests on organic food and matrices- acquire theoretical and practical knowledge about lyophilisation process- Acquire theoretical knowledge on the operation of machinery such as autoclaves, fermenters, dispensers, freeze-drying machines - Acquire theoretical knowledge about the production phase of the stabulogen vaccine and the bacterium/virus isolation process. Acquire theoretical knowledge on the production of recombinant proteins and monoclonal antibodies.

Link <https://www.izsum.it/IZSUM/>

Social and political activities

01/10/2017 - 01/10/2022 University of Perugia

Activities of university representation Being part of an association is an experience that I highly recommend to anyone who chooses to undertake a course in higher education, allows the student to develop critical thinking in front of the university reality, to learn the means to carry out an election campaign such as communication skills, organization, project writing, event organization, student assistance, and in my case, having been treasurer of the association, to manage funds and resources. Personally, I was elected student representative for 4 years in a row, in the second two years of office and in the fifth year overall I became a member of the executive board of the association and then leave the baton to devote myself to academic studies towards the end of my path.

I will always be grateful to those who taught me how to manage this association, remaining always detached from political parties to pursue only student goals without any influence of any kind

Link <https://linktr.ee/ideeinmovimento/pg>

Management and leadership skills

MANAGEMENT 4 SCIENTISTS0 :Advanced training course for graduates in technical and scientific disciplines. In technological enterprises, such as those operating in the chemical industry, graduates in technical-scientific subjects have a fundamental role because they perform essential functions, such as those in analysis or research laboratories. In their professional growth, these professionals can also seize opportunities in less technical areas such as Regulatory affairs, marketing, or sales. In both cases, it is necessary to have a culture open to the economic and management aspects. The path "Management 4 Scientists: Advanced training course for graduates in technical-scientific disciplines" developed by LIUC Business School in collaboration with Federchimica, it is aimed at young talents in scientific subjects with the intention of developing "all-round" professional profiles capable of covering not only the technical dimension, but also the aspects of managerial matrix nowadays more and more indispensable for the professional development in the enterprises to high scientific-technological content.

Link <https://www.liucbs.it/formazione-manageriale/formazione-a-catalogo/management-4-technicians/>