






PERSONAL INFORMATION



ALESSANDRO BONARDI

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Gender Male | Date of birth Jul 24 1997 | Nationality Italy

WORK EXPERIENCE

Oct 2020 - Jun 2021

Tirocinio curricolare

Modelling of the structural stability of the Sac7d afftine following mutations in the amino acid sequence.
 Università degli Studi di Milano-Bicocca , Piazza della Scienza,1 - MILANO (MI) Italy
Business or sector education, training, research and development

Feb 2019 - Jun 2019

Undergraduate Internship

Computational study of compounds of interest for upconversion processes, in particular the focus was on the properties of the DPA dendrimer.
 Università degli studi di Milano-Bicocca , Piazza della Scienza - MILANO (MI) Italy
Business or sector education, training, research and development

EDUCATION AND TRAINING

2021 - 2024

Ph.D in Chemical, Geological and Environmental Sciences

EQF level 8

Università degli Studi di MILANO-BICOCCA - Scienze Chimiche, Geologiche e Ambientali
 Doctor of Philosophy (Ph.D.)

Principal subjects/occupational skills covered:

Knowledge of the principles of photochemistry and biochemistry.
 Expertise in molecular visualization, modeling of biological systems and biomolecules, calculation of UV-Vis emission and absorption spectra.
 Ability to analyze and evaluate data and plan the next steps of the research activity.

2019 - 2021

Master's degree in Chemical Sciences and Technologies

EQF level 7

Università degli Studi di MILANO-BICOCCA - Department of Environment and Territory Sciences and Earth Sciences
 2nd cycle degree/Master of Science (2 years)

2016 - 2019

SCIENZE E TECNOLOGIE CHIMICHE

EQF level 6

Università degli Studi di MILANO-BICOCCA - Department of Materials Science
 1st cycle degree/Bachelor (3 years)

Pre-university studies

Secondary school diploma: Scientific High School, Applied Sciences option
 School-leaving examination taken in (year): 2016
 Italian secondary school diploma

PERSONAL SKILLS

Mother tongue(s)

Italian

Foreign language(s)

	UNDERSTANDING				SPEAKING				WRITING	
	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient	C1	Proficient	C1	Proficient	C1	Proficient	C1	Proficient
French	A2	Basic	A2	Basic	A2	Basic	A2	Basic	A2	Basic

English: First Certificate in English - Cambridge English Language Assessment (Part of the University of Cambridge, UK), 02 2016 - European level: C1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
 Common European Framework of Reference for Languages

Linguistic experience(s)

Other experience acknowledged by the course of study

Erasmus

Language: French

Duration of studies in months: 18

Foreign country where the academic studies were carried out: Parigi (France)

Description: To continue the development of the research project, a stay in France, in Paris, for 18 months, was established: (03-10-2022 / 03-04-2024). During this period, the research activity, carried out at the Chimie ParisTech university, is supervised by Professor Carlo Adamo.

Communication skills

- Teamworking attitude, furtherly developed during the internship
- Ability to present in an effective and concise way the results obtained
- Ability to speak in front of an audience in ceremonies and conferences
- Listening and learning attitude, especially towards more experienced colleagues.

Organisational / managerial skills

- Ability to organize time and workspace, developed through the years of studying
- Attitude to rationalize problems even in critical situations

Job-related skills

Knowledge of the fundamental principles of:

- Organic chemistry
- Inorganic chemistry
- Photochemistry
- Physical chemistry
- Chemistry of colloids
- Chemistry for nanotechnologies
- Organic chemistry for sustainable energetics

Mastery of the quantomechanic calculus program Gaussian16, the molecular viewers MolDen and GaussView and knowledge of the Schrodinger Suite, in particular of Maestro.

Digital competences

SELF-ASSESSMENT				
INFORMATION PROCESSING	COMMUNICATION	CONTENT CREATION	SAFETY	PROBLEM SOLVING
Proficient user	Independent user	Independent user	Independent user	Independent user

Digital competences - Self-assessment grid

Basic digital competence:

OFFICE AUTOMATION

Office Suite: (Intermediate) | **Presentation Software:** (Advanced) | **Spreadsheets:** (Advanced) | **Web Browser:** (Advanced) | **Word Processors:** (Advanced)

COMPUTER PROGRAMMING

Markup languages: (Foundation) | **Programming languages:** C++ (Intermediate), Pascal (Foundation), Python (Foundation), R (Intermediate)

SYSTEMS AND NETWORKS MANAGEMENT

Operating systems: (Foundation)

GRAPHICS AND MULTIMEDIA

(Foundation)

Other skills

- Knowledge of the statistical tools used in basketball and football analytics, acquired in my spare time

Driving licence

B

PUBLICATIONS

Journal articles

"Evaluation of docking procedures reliability in affitins-partners interactions"; Anna Ranaudo, Ugo Cosentino, Claudio Greco, Giorgio Moro, Alessandro Bonardi, Alessandro Maiocchi, Elisabetta Moroni; Frontiers in Chemistry; Frontiers (2022)
www.frontiersin.org/articles/10.3389/fchem.2022.1074249/full

Abstract/reply/comments

"Computational study on the structural stability of mutated Affitins"; Anna Ranaudo, Alessandro Bonardi,

Ugo Cosentino, Claudio Greco, Giorgio Moro, Elisabetta Moroni, Alessandro Maiocchi;
Abstract accettato per l'inclusione negli atti del congresso 'SCI2021: XXVII Congresso Nazionale della Società Chimica Italiana', tenutosi in modalità virtuale dal 14 al 23 Settembre 2021. (2021)

ADDITIONAL INFORMATION

I love sport, in all its forms, because on the pitch, whatever it is, talent and hard work can find their place, but just the conjunction of them allows to make a difference.

Not having enough talent to practice at an high level any of my favorite sports, I play volleyball in a minor league team and I follow passionately football, NBA basketball and italian volleyball with a critical eye, trying to understand deeply the details of technical gestures, tactics and everything i can analyze.

The same deep desire to understand is the reason why I studied chemistry: it's not enough to know, you have to understand.