

RICCARDO PEDRAZA

WORKING EXPERIENCE

Nov 2019 - Dec 2020

Electrochemical Researcher / thesis student at DISAT (Department of Applied Science and Technology)

Politecnico di Torino

Development and characterization of carbonaceous materials (bio-)derived from lignocellulosic waste to be used as electrodes/electrolytes in electrochemical energy storage devices, in particular sodium/lithium-ion batteries; use of water-based or solvent-free green chemistry techniques with low environmental impact.

Apr 2018

Voluntary internship at the analysis laboratory of the Parini Hospital in Aosta.

Aosta (Italia)

2016 - 2017

Educational workshops for children aged between 6 and 11

Associazione "Équipe Arc-en-Ciel", Piazza Roncas 7, 11100 Aosta (Italia)

"Project famille à la montagne" Workshops to discover nature organized by the Department Agriculture and Environment of the Autonomous Region of Aosta Valley Protected Areas Structure.

Business or sector Scientific communication, environmental education, outdoor activities, and planning tourist

2014 - Present

Volunteer activity as an educator for elementary and middle school children

Uniendo Raices Association o.n.l.u.s., Aosta (Italy)

2017

Laboratory Operator

ASL TO 2 Hospital Maria Vittoria, Torino (Italia)

Supporting activities at the laboratory of the hospital (internship).

EDUCATION

2018-2020

Industrial Biotechnology Master's Degree Student University of Turin, 110/110

Advanced molecular biology, Applied Biochemistry, Enzymology, Industrial chemical and biochemical processes, Interaction of inorganic materials and living matter, Molecular and cellular biophysics, Molecular modelling, Separation science, Business administration applications to the biotechnology field, Nanobiotechnology, Protein engineering and drug design.

Master's Degree Thesis: *"Biomass waste streams and their conversion into Na-ion battery anodes"*

2014-2017

University of Turin Degree in Cellular and Molecular Biology

Cell and Tissue Biology, Plant Biology and Diversity, Language Certification (English), General and inorganic chemistry, Organic chemistry, Ecology, Mathematics and Physics, General zoology, Comparative Anatomy and Bioethics, Biochemistry, Molecular Biology and Genetics, General Physiology, General Hygiene and Quality, Immunology, General Microbiology, Cellular and Developmental Biology, Computer processing of experimental data, Plant physiology, Biomolecular laboratory, Laboratory of biochemical and microbiological methodologies.
Thesis: "Meccanismi di ereditarietà epigenetica transgenerazionale"

2009-2014 **Scientific and Technological High School "Regina Maria Adelaide"**
Science degree, Double Italian/French Diploma EsaBac

In 2012, three months of attending the Miami-Dade County Public School, Miami-Dade County, Florida (USA).
Italian State Exam and French Baccalauréat

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
French	B2	B2	B1	B1	B1
Spanish	C1	B2	C1	C1	B1

Organisational / managerial skills

Teamwork (worked in a team of 5 people during the thesis work)
Good organisational and time management skills gained during high school and university.

Job-related skills

Ability to use HPLC, pyrolysis, cyclic voltammetry, galvanostatic cycling (learned during thesis work).
General management of laboratory equipment

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

- good command of Office Suite (Word Processor, Spread Sheet, Presentation Software)
- Competence in using the "R" program for statistical data analysis.
- Competence in the use of the "Chimera" program for the manipulation of molecules in 3D images.
- Competence in using the "Origin" program for statistical data analysis.
- Competence in using the "Arbin" program for electrochemical analysis.
- Competence in the use of the basic python language.

Other skills/Hobbies

- Ski
- Rugby
- Mountain trekking
- Bike

Driving licence Category B

ADDITIONAL INFORMATION

Publications contribution in the drafting of a review on eco-sustainable electrode materials (Politecnico di Torino)

Presentations presentation of the results obtained for the MIUR "*Trust*" project