

Luigi Casagrande

Materials and Nanotechnology Engineer

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Education

MS	POLITECNICO DI MILANO, Materials Engineering and Nanotechnology (<i>english</i>)	Sep 2023 - Mar 2026 Milano, Italy
	<ul style="list-style-type: none"> Specialization in: <i>Engineering Applications</i> Relevant coursework: "Metallic Materials and Product Innovation", "Composite Materials", "Life Cycle Assessment", "Materials for Energy" 	
EX	SHANGHAI JIAO TONG UNIVERSITY, Materials Engineering	Sep 2024 - Feb 2025 Shanghai, China
	<ul style="list-style-type: none"> <i>World Wide Exchange Program</i> offered by Politecnico di Milano Relevant coursework: "Multiscale Materials Modelling", "Advanced Bio-Functional Materials", "Smart Polymeric Materials" 	
BS	POLITECNICO DI MILANO, Materials Engineering and Nanotechnology (<i>italian</i>)	Sep 2020 - Jul 2023 Milano, Italy
	<ul style="list-style-type: none"> Thesis: "Production of Printed Devices for Energy Storage" Relevant coursework: "Steelmaking", "CAD Modelling", "Data Analysis and Experimental Methods", "Structural Mechanics" 	
EX	KAWANA WATERS HIGH SCHOOL, STEM subjects	Jul 2016 - Sep 2016 Queensland, Australia
	<ul style="list-style-type: none"> Independent study term abroad during High School 	

Skills

Languages: • Italian (*native*) • English (*fluent*) • Chinese (*elementary*) • French (*elementary*)

Professional Software: MATLAB, Autodesk Inventor, SolidWorks, Abaqus, LAMMPS, OpenLCA, Comsol, JMP Pro

Enterprise & Business Software: Microsoft Office, Power BI

Programming Languages: Python, L^AT_EX, JavaScript, C++, HTML/CSS

Certificates

> IELTS Academic <	issued by: <i>British Council</i>	2023
English language certification, C1 Level (7.5).		
> International Pool Lifeguard <	issued by: <i>Federazione Italiana Nuoto</i>	2017
Lifeguard certification at indoor/outdoor swimming pools.		
> Pre-Academic Piano Certificates <	issued by: <i>Conservatori di Musica italiani</i>	2013 & 2016
Certification exams in piano for admission to the music conservatory, I and II cicle.		
> Marine Military Sailing Course <	issued by: <i>Federazione Italiana Vela</i>	2015
Certification of passing the sailing course exam of the Italian Navy.		

About Me

- Since childhood, I have pursued **competitive swimming** at a national level, alongside an active engagement in **music** through solo and ensemble performances. These sustained disciplines have shaped a highly determined, resilient, and **results-driven approach**.
- I have always **challenged myself** by participating in mathematics, computer science, and chemistry competitions, and was awarded the 'Aurea' Cup in the high school team championship. These experiences enhanced my **teamwork abilities**, **critical thinking**, and **problem-solving** skills.
- Travelling and engaging with different cultures have enhanced my **adaptability** and **open-minded approach** to diverse environments, contributing to my full proficiency in **English** and my ongoing study of the **Chinese** language.