

Luigi Casagrande

Materials and Nanotechnology Engineer

🇮🇹 Italian ✉️ luigi.casagrande@outlook.it 🌐 luigicasagrande.it in luigi-casagrande

Education

MS	POLITECNICO DI MILANO, Materials Engineering and Nanotechnology (<i>english</i>) <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” 	Sep 2023 - Mar 2026 Milano, Italy 🇮🇹
EX	SHANGHAI JIAO TONG UNIVERSITY, Materials Engineering <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” 	Sep 2024 - Feb 2025 Shanghai, China 🇨🇳
BS	POLITECNICO DI MILANO, Materials Engineering and Nanotechnology (<i>italian</i>) <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” 	Sep 2020 - Jul 2023 Milano, Italy 🇮🇹
EX	KAWANA WATERS HIGH SCHOOL, STEM subjects <ul style="list-style-type: none"> Independent study term abroad during High School 	Jul 2016 - Sep 2016 Queensland, Australia 🇦🇺

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, \LaTeX , JavaScript, C++, HTML/CSS

Certificates

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

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.