

# Luigi Casagrande

Materials and Nanotechnology Engineer

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

## Education

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

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