

MATTEO PAVARINI

PERSONAL INFORMATION

Birth date and place **26th September 1995, Brescia (Italy)**

Address (work) Via Bassini 6b, 20133 Milan (Italy)

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Nationality Italian



PROFESSIONAL EXPERIENCE

Jun 5th, 2025 - ongoing **Junior Assistant Professor (Ricercatore a tempo determinato A - Junior)** in Materials Science and Technology (GSD 09/IMAT-01, SSD IMAT-01/A), Politecnico di Milano, Milan (Italy). Department of Chemistry, Materials, and Chemical Engineering "G. Natta".

May 2023 – Jun 2025 **Research Fellow (Assegnista di Ricerca)** in Materials Science and Technology (GSD 09/IMAT-01, SSD IMAT-01/A), Politecnico di Milano, Milan (Italy). Department of Chemistry, Materials, and Chemical Engineering "G. Natta". Theme: Development of functional and active surface treatments – Antioxidant and antibacterial treatments. Supervisor: Prof. R. Chiesa

EDUCATION AND TRAINING

Mar 21st, 2024 **PhD in Materials Engineering** (GSD 09/IMAT-01, SSD IMAT-01/A). Politecnico di Milano, Milan (Italy), Department of Chemistry, Materials, and Chemical Engineering "G. Natta". Dissertation: Process tuning of multifunctional Plasma Electrolytic Oxidation coatings on light alloys for implantable devices. Supervisor: Prof. R. Chiesa, Tutor: Prof. L. De Nardo
Mark: cum laude

May-Aug 2022 **Visiting PhD candidate.** University of Ottawa, Ottawa (ON, CA). Department of Mechanical Engineering, c/o Prof. F. Variola Group

2020 **Italian Professional Engineering Licensure** (Abilitazione alla professione di Ingegnere). Section: Industrial Engineering. 1st Session, Ordine degli Ingegneri di Milano c/o Politecnico di Milano, Milano (Italy)

Dec 18th, 2019 **Master's Degree (Laurea Magistrale) in Biomedical Engineering.** Politecnico di Milano, Milan (Italy). Curriculum: Biomechanics and Biomaterials. Thesis: Sviluppo ed ottimizzazione di un trattamento PEO antibatterico innovativo a base di borato di sodio. Supervisor: Prof. R. Chiesa
Mark: 110/110 cum laude

Feb-Jul 2018 **Swiss-European Mobility Programme (SEMP) student.** Ecole Polytechnique Federale de Lausanne (EPFL, Lausanne, VD, CH)

Sep 23rd, 2017 **Bachelor's Degree (Laurea Triennale) in Ingegneria Biomedica.** Politecnico di Milano, Milan (Italy). Thesis: Ricostruzione e analisi computazionale di strutture sopramolecolari di peptoidi. Supervisor: Prof. S. Vesentini
Mark: 110/110 cum laude

Jul 2014 **High School Diploma.** Istituto Tecnico Industriale "Luigi Cerebotani", Liceo Scientifico Tecnologico (progetto Brocca), Lonato d/G, BS (Italy)
Mark: 100/100

HONORS AND AWARDS

2023	Best poster and short oral presentation (honorable mention). 15 th Symposium on Biodegradable Metals (Biometal), Cetraro (Italy)
2014	Best poster awardee. “Lo studente ricercatore – Anno 2013”, national contest. Istituto Fondazione di Oncologia Molecolare (IFOM), Milano (Italy).
2013	Awarded participant. “Lo studente ricercatore – Anno 2013”, national contest. Istituto Fondazione di Oncologia Molecolare (IFOM), Milano (Italy).

TEACHING EXPERIENCE

Practical Activity and Seminars

A.Y. 2024/25	External collaborator – Lectures and workshops. Prof. Marina Cabrini, Advanced Biomaterials course (GSD 09/IMAT-01, SSD IMAT-01/A, 6 CFU). Università degli Studi di Bergamo, Master in Medical Engineering.
A.Y. 2024/25	Teacher Assistant – Practicals and workshops. Prof. Roberto Chiesa, integrated course Materials Selection Criteria in Design & Engineering (GSD 09/IMAT-01, SSD IMAT-01/A, 12 CFU), teaching modules Materials Selection, Properties of Materials 1 and Properties of Materials 2. Politecnico di Milano, 1 st year Master in Design & Engineering.
A.Y. 2024/25	Teacher Assistant – Practicals and workshops. Prof. Luigi De Nardo, integrated course Materials for Design (Materiali per il design, GSD 09/IMAT-01, SSD IMAT-01/A), teaching module Proprietà generali dei materiali (3 CFU). Politecnico di Milano, 1 st year Bachelor in Fashion Design.
A.Y. 2022/23	Teacher Assistant – Practicals and tutoring. Prof. Roberto Chiesa, integrated course Materials Selection Criteria in Design & Engineering (GSD 09/IMAT-01, SSD IMAT-01/A, 12 CFU). Politecnico di Milano, 1 st year Master in Design & Engineering.

ADDITIONAL ACTIVITIES

Thesis supervision

2020 - today	Co-supervisor in 16 Master theses (GSD 09/IMAT-01, SSD IMAT-01/A) in Biomedical Engineering, Materials Engineering, Design and Engineering, Politecnico di Milano
2023 - today	Co-supervisor in 2 Bachelor theses (GSD 09/IMAT-01, SSD IMAT-01/A) in Materials Engineering, Politecnico di Milano

Organization of National and International events

2025	Member of ESB 2025 Organizing Committee. 34 th annual conference of the European Society for Biomaterials (ESB), Torino (Italy).
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