



Giovambattista Tomassi

ID: CA97371TQ | **Date of birth:** 29/06/2002 | **Place of birth:** Napoli, Italy | **Nationality:** Italian |

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ABOUT ME

Passionate Materials Engineer from Naples, Italy, with two years of dedicated experience in characterizing and testing organic and inorganic materials to identify sustainable alternatives. Focuses on the critical area of rare earth metal recovery, essential for renewable technologies facing supply challenges. Currently studying innovative recycling processes from the next generation of solar panels. Believes in the power of collaborative dialogue within a stimulating work environment to drive insightful solutions.

WORK EXPERIENCE

PHD STUDENT - RECYCLING PROCESS FOR INORGANIC AND PSK-BASED IPVS - ECO RECYCLING S.R.L - 01/09/2025 -
Current - ROME, ITALY

- Critical analysis of innovative recycling processes for IPVs

MASTER THESIS - CIRCULAR ECONOMY SOLUTIONS: MAGNETIC CLAY-NANOCOMPOSITES FOR RARE EARTH RECOVERY FROM E-WASTE - CICECO - AVEIRO INSTITUTE OF MATERIALS - 05/02/2025 - 11/07/2025 - AVEIRO, PORTUGAL

- Synthesis and characterization of magnetic clay nanocomposites
- Rare earth metals adsorption studies from E-waste leachate solutions

INTERNSHIP - SUSTAINABLE PAPER COATINGS FOR PACKAGING - BIOPOL4FUN - RESEARCH GROUP OF CICECO - AVEIRO - 01/10/2024 - 24/01/2025 - AVEIRO, PORTUGAL

- Synthesis of lysozyme nanofibrils
- Design of gelatin-based coating formulations on paper

INTERNSHIP - BIOSOURCED RUBBER NANOCOMPOSITES FOR TIRE APPLICATION - CERMAV (CENTRE DE RECHERCHES SUR LES MACROMOLÉCULES VÉGÉTALES) - 27/05/2024 - 07/09/2024 - GRENOBLE, FRANCE

- Synthesis and characterization of elastomer nanocomposites (natural or synthetic rubber and cellulose nanocrystals)
- Mechanical testing of elastomer nanocomposites
- Atomic Force Microscopy imaging technique

STUDENT LABORATORY - MAINTENANCE AND PRACTICE - UNIVERSITY OF TOULOUSE PAUL SABATIER III - 01/02/2022 - 13/05/2022 - TOULOUSE, FRANCE

- Sintering of superconducting materials
- Size-exclusion chromatography and mass spectroscopy

EDUCATION AND TRAINING

12/09/2024 - 11/07/2025 Aveiro, Portugal

FAMEAIS ERASMUS MUNDUS JOINT MASTER UA - University of Aveiro

Website <https://www.ua.pt/> | **Level in EQF** EQF level 6

Website <https://phelma.grenoble-inp.fr/> | Level in EQF EQF level 6

24/09/2020 – 11/07/2023 Napoli, Italy

BACHELOR DEGREE - MATERIALS SCIENCE AND ENGINEERING University of Naples Federico IIWebsite <https://www.international.unina.it/> | Level in EQF EQF level 5

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C2	C2	C1
FRENCH	C1	C1	B2	B2	B1
PORTUGUESE	A2	A2	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Microsoft Powerpoint | Microsoft Excel | Microsoft Word | Imagej | Nanoscope / Nanoscope Analysis | Proficient User of OriginPro | Python (computer programming) | SEM, XRD, OM & TEM | problem finding, problem shaping, problem solving | manage stress in the work place | Knowledge of working with Mestrenova and Chemdraw | Good Communication and teamworking skills.

REFERENCES

Joao Paulo Cosas Fernandes - CERMAV (Centre de Recherches sur les Macromolécules Végétales)

Materials engineer, microscopist and doctor in physico-chemistry of polymers, specialized in the study of the processing-structure-property relationships of multiphase polymer materials by local morphological, nanomechanical and chemical analyses.

joao.cosas@cermav.cnrs.fr

Cláudia Batista Lopes - CICECO, Aveiro Institute of Materials

Materials scientist and assistant researcher, specialized in the remediation of metal contaminated waters by sorption processes, either by reusing biowastes as sorbents either by developing highly selective and efficient magnetic nanomaterials for target elements.

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