Federica Sandulli

Nanotechnology Engineering Student at La Sapienza University of Rome

Personal Profile & Interests

I am very curious and eager to know what surrounds me.

I am interested in Materials and how to use them to solve actual problems, as well as Chemical Engineering, and nature investigation in general.

I am good at relations and team working. I have had multiple occasions to share activities with my schoolmates and had a pleasing experience with my Thesis Coordinator and Advisor. I usually face my university studies with colleagues: I am convinced that studying and working together widens one's horizons and allows to grasp details that one might have overlooked.

If I have a problem, I try to find a quick and reasonable solution straightforwardly.

I am a hard-working student and I look forward to putting my knowledge into practice.

I also enjoy running and reading very much, as well as listening to music, playing the piano and practicing judo. My greatest passion is travelling and discovering new cultures and panoramas, both with friends and on my own.

Skills

Languages

- Italian: native speaker.
- English: Cambridge FCE (B2) with 179/190, May 2016.
- Spanish: DELE Certificate (A1) with 90.25/100, August 2016. Further personal skills up to a B2 level, acquired during the Erasmus Traineeship experience in summer 2021.
- French: DELF Certificate (A2) with 93/100, August 2013.

Technical Competences

- Good knowledge of Microsoft Office Products, especially Word and Excel.
- Good knowledge of MatLab.
- Good knowledge of Autodesk Inventor and Nastran.
- Basics of C++.
- Basics of Java.
- Use of LYX and Latex.

Education

- September 2021 – now: on course, attending the first year out of two of the master degree in **Nanotechnology Engineering** (LM-53) at La Sapienza University of Rome

- October 2018 – July 2021: **Università Campus Bio-Medico**, Rome.

  Bachelor's Degree in **Industrial Engineering** (L9), 28 July 2021.

  Vote: **110/110**.

  Thesis Title: "Idrogel di polimeri naturali per il rilascio di fertilizzanti: miglioramento della produzione agricola e riduzione dell'inquinamento." ("Slow-release fertilizer Hydrogels based on natural polymers: improvement of agricultural production and reduction of pollution").

- 2013 - 2018: **Liceo Classico Statale Visconti**, Rome (classical studies with Ancient Greek and Latin).

  High School Diploma: **100/100 cum laude**.

Experiences

- June 2022: **Nanosum 2022** (International Summer School on Nanosciences and Nanotechnologies) in Marseille, France. Best project award: 3rd place with the following project "2D-Xenes made of group 14, beyond graphene: what are their properties and the challenges related to the synthesis of this new class of monoelemental 2D materials?"

- 30 July 2021 – 30 September 2021: **Traineeship** (Erasmus) in San Sebastian, Spain.

  Target of the training period: learning to develop computer models to predict the mechanical properties of certain materials through mathematical models over time and how to characterize real materials. Use of MatLab, openScad, MeshLab and Z88Aurora.

- 2018-now: personal working experiences in teaching (helping high school students with their homework and studies).

- 2018: 2° place in a Greek competition (Per Aspera ad Astra), Liceo Visconti Roma.

- 2017: one week stage in a Biochemical laboratory, approaching to DNA research, through high school.

- IMUN (in 2015 and 2016) in Rome: it is a working experience in which one pretends to be a UN honourable member and simulates a Committee reunion speaking English.