

Dawid Rossino

WORK EXPERIENCE

Nov 2023 – Apr 2024

Research Fellowship

Department of Chemical Engineering, University of Pisa;

Department of Clinical and Biological Sciences, University of Turin.

- **Research project (IMPAVID):** Production, upscale to pilot plant volumes, physical and chemical validation of a multifunctional medical device.
- Production of Molecularly Imprinted Nanoparticles
- Production of Drug Embedded Nanoparticles

EDUCATION

2020 – 2023

Master's degree in Chemical Engineering

Department of Chemical Engineering, University of Pisa

- **Modules:** Kinetic Theory in Chemical Reactions, Chemical Plant Design, Synthesis and Simulation of Chemical Plants, Chemical Fluid Dynamics, Control Theory, Project Management and Quality Check, Safety and Failure Analysis, Process Intensification, Polymeric Materials Science, Environmental Impact Analysis (Life Cycle Assessment), Nanoparticles Production Processes with Pilot Plants, Nanoparticles DLS Dimensional Analysis, Polymeric Nanoparticles Stability and Degradation Studies.
- **Master Thesis:** Synthesis and Characterization of Polymeric Particles with a Microfluidic Device.
- **Grade:** 106/110

2015 – 2019

Bachelors' degree in Chemical Engineering

Department of Chemical Engineering, University of Pisa

- **Final Report:** Analysis of Sulfuric Acid Production Techniques.
- **Grade:** 97/110

2010 – 2015

High School Diploma

Liceo scientifico C.De Sarlo

- **Grade:** 100/100

SKILLS

Languages

Italian – Mother Language

English – Fluent

- University of Cambridge, level B2

Polish – Intermediate

General Skills

- Advanced Mathematics Knowledge
- Problem solving
- Critical Analysis

Digital Skills

- **Advanced:** Microsoft Office, AutoCAD, Honeywell UnisimDesign
- **Intermediate:** MATLAB, Sima Pro, L^AT_EX, Ansys
- **Basic:** Python

ADDITIONAL INFORMATION

Academic Projects

- Synthesis and Design of a Divided Wall Column for the Separation of a Four Component Hydrocarbon Mixture.
- Synthesis, Design and Economic Analysis of a Urea Production Plant.
- Synthesis, Design and Life Cycle Assessment Analysis of a Biodiesel Production Plant using Waste Cooking Oil.
- Analysis and Project Managing of a new Plant for Nuova Solmine.
- Risk Assessment Analysis of a Polymer Production Plant.
- Laboratory Experience for Different Polymers Production.
- Nanoparticles Preparation and Characterization using the Scanning Electron Microscope (FEI Quanta 450 FEG)

Driving licence B