

Niccolò Fanari

PROCESS ENGINEER

Milan, Italy

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About Me

I graduated in Process Chemical Engineering at Politecnico di Milano in 2023, defending my Master's Thesis on carbonaceous nanoparticles formation. I'm continuing my studies as a postgraduate researcher, investigating the quantum chemical behavior chemical kinetics of polycyclic aromatic hydrocarbons. I am eager to refine my knowledge and grow professionally by applying my expertise to new challenges. Innovation-driven and solution-oriented, I especially thrive in dynamic and collaborative environments.

Skills

Technical Skills Reactor Design, Process Control, Process Optimization, Chemical Kinetics

Digital Skills Aspen HYSYS, UniSim, Office Package, MATLAB, LaTeX

Soft Skills Problem Solving, Public Speaking, Team Working, Leadership, Flexibility

Languages Italian, English (Advanced, IELTS C1 certificate)

Education

Politecnico di Milano

Milano, Italy

M.Sc. IN CHEMICAL PROCESS ENGINEERING & B.Sc. IN CHEMICAL ENGINEERING

Sept. 2016 - Apr. 2022

- Degree Grade: 110/110
- Thesis Statement: "Kinetic Modeling of Carbonaceous Particle Polydispersity"
- Relevant courses: Chemical Plants, Industrial Chemistry, Fluid Mechanics, Thermodynamics, Quantum Mechanics, Statistical Physics

Work Experience

Politecnico di Milano

Milano, Italy

POSTGRADUATE RESEARCHER

Sept. 2023

- Research topics: quantum chemical kinetics, kinetic mechanism development and electro-optical properties prediction of PAHs
- Published papers and attended to international conferences to present my work
- Management skills: supervising master thesis students
- Respected deadlines while working under pressure

Extracurricular Activities

Teaching activities

Politecnico di Milano, Milano

"DYNAMICS AND CONTROL OF CHEMICAL PROCESSES" COURSE

Jan. 2023 - Jun. 2025

I supported the teaching activities of the "Dynamics and Control of Chemical Processes" course, preparing and delivering practical lectures.

Teaching activities

Politecnico di Milano, Milano

"COMBUSTION PRINCIPLES" COURSE

Jan. 2023 - Jun. 2025

I supported the teaching activities of the "Combustion Principles" course, preparing and delivering practical lectures.