NICCOLO' DIPACE

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EDUCATION

ÉCOLE NATIONALE SUPERIEURE DE CHIMIE DE PARIS– PSL UNIVERSITY **Paris, France**
Chemistry Sept 2024 - Sept 2025

- Double joint degree program, 2nd year, ICI (Integrative Chemistry & Innovation) Track
- Relevant courses: Polymers, MOFs, MD simulations, DFT, Analitcal chemistry.
- Thesis: DFT and TD-DFT on biocompatible, tunable, and reversible redox-responsive fluorescent metallocene-based probes

UNIVERSITY OF FLORENCE **Florence, Italy**
Chemistry Sciences Sept 2023 – June 2024

- Double joint degree program, 1st year, curriculum in Supramolecular, materials and nanosystems
- Relevant courses: Nanoparticles, Computational chemistry, inorganic chemistry, nanosystems, supramolecular chemistry, materials.
- Selected as 1st candidate for the Double Degree program

UNIVERSITY OF FLORENCE **Florence, Italy**
Chemistry Sept 2019 – Jun 2023

- Thesis: Molecular dynamics simulations of N-glycosylated proteins

WORK EXPERIENCE

ÉCOLE NATIONALE SUPERIEURE DE CHIMIE DE PARIS– PSL UNIVERSITY **Paris, France**
Internship – Theoretical Investigation of Computational Protocols Feb 2025 – Sept 2025

- Focused on optimizing computational methods to accurately model the electronic properties
- Performed simulations and analyzed the effects of redox reactions on the fluorescence properties of the probes.
- Collaborated with Ilaria Ciofini to refine the protocol and improve computational accuracy.

UNIVERSITY OF FLORENCE **Florence, Italy**
Internal Training – MD Studies of Protein Behavior with Different Water Models March 2024 – May 2024

- Replaced rigid water models with more flexible models to analyze the impact on protein structure and dynamics.
- Evaluated protein conformational changes and stability by comparing results from simulations with different water models.

UNIVERSITY OF FLORENCE **Florence, Italy**
Internship – Molecular Dynamics Simulations of N-glycosylated Proteins Dic 2022 – May 2023

- Conducted molecular dynamics simulations to study the behavior of N-glycosylated proteins.
- Utilized GROMACS, VMD to model and simulate protein dynamics.
- Interpreted simulation results and contributed to the development of insights into protein function and folding mechanisms.

LEADERSHIP AND ACTIVITIES

Waiter, Trattoria da Guido **Florence, Italy**
Managed customer complaints in a professional manner, aiming for quick and efficient resolutions. Mai 2022 -- July 2024

Football coach: focus on team dynamics, leadership skills, and strategic game planning

Math and chemistry Tutor: Tutored undergraduates in core mathematical and chemistry concepts.

Volunteering: Developed communication and leadership skills by interacting with diverse groups and organizing workshops.

SKILLS AND ADDITIONAL INFORMATION

Languages: English (Fully Proficient), Spanish (Fully Proficient), French (Intermediate – conversational and written), Italian (Native).

Programming and Software: Excel (Advanced), LaTeX (Proficient), Linux (Advanced), Igor (intermediate), ChemDraw

(Intermediate), Gaussian (Advanced), GROMACS (intermediate), OriginLab (intermediate), VMD(Advanced).

Interests and Sports: Football, Tennis, Running.