

Giulio De Matteis

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Education

- 2023–present **Master’s Degree in Physical Chemistry**
University of Pisa (Pisa, Italy)
- 2020–2023 **Bachelor’s Degree in Chemistry and Materials Chemistry**
ALMA MATER STUDIORUM - University of Bologna (Bologna, Italy)
- Thesis: “Analysis of perturbations induced by ligands on SARS-CoV-2 Spike protein”
 - Supervisor: Professor Francesco Zerbetto
 - Final grade: 110/110 with honors

Publications

- October 2023 De Matteis, A., Turkmen Ceylan, F. B., Ridsdel, J., De Matteis, G., “Separation During Emergencies: Is there a Stable Relationship Between Separated Children and the Rest of a Fleeing Population? Evidence from Three Situations in Africa”. *International Migration Review*

Experience

- April–July 2023 **Apprenticeship in Computational Chemistry**, *University of Bologna*, Bologna (Italy)
Developed procedures and methods for analysing molecular dynamics simulations in order to better understand the interactions between the SARS-CoV-2 spike protein and putative FDA approved drugs
- 2019–2020 **Full stack developer**, *UNHCR The UN Refugee Agency*, remote
Developed a web application for time series analysis
- June–August 2019 **Internship**, *LabSel s.r.l.*, Lequile (Italy)
Chemistry and Microbiology laboratory assistant

Other relevant experiences

- Courses and certifications **Material Science and Technology course**, *Politecnico di Milano*
Astrophysics PLS course, *University of Salento*
Physics summer school, *University of Salento*
MATLAB Machine Learning Onramp certification, *MathWorks*
MATLAB Onramp certification, *MathWorks*
Scientific Computing with Python certification, *freeCodeCamp*
Rust Essential Training certification, *LinkedIn*
- Awards and scholarships Team leader of the Reagentario project, selected by University of Bologna for the Call for StartUp program (2023)
Scholarship awarded for academic excellence by University of Bologna (2021–2022)
Scholarship awarded for academic excellence in fields of particular national interests by University of Bologna (2021–2022)
Listed in the Italian National Excellence Honors Roll (2020)
Winner of the literary award “Vitulivaria” (2019)

Skills

Programming languages Python, MATLAB, Fortran, C, Go, JavaScript (TypeScript)

Libraries and frameworks NumPy, Pandas, MDAnalysis, scikit-learn, LAPACK, RDKit, Flask, Django

Tools GNU/Linux operating systems, Git, Docker, Conda, Nix, VMD, ChimeraX, Gaussian, \LaTeX

Languages

Italian Native speaker

English Proficient