



Filippo Occhioni

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Date of birth: 17/07/1997 Nationality: Italian

WORK EXPERIENCE

[01/11/2022 – Current]

Ph.D. Student

Sapienza University of Rome

City: Rome | **Country:** Italy | **Name of unit or department:** Mechanical and Aerospace Engineering Department (DIMA)

I am currently enrolled in a Ph.D. program in Theoretical and Applied Mechanics. My research focuses on phase transitions, specifically the formation of bubbles and droplets. The approach used combines fluctuating hydrodynamics, through a diffuse interface model, with rare event techniques. The ultimate goal is to develop a model capable of accurately describing the formation and evolution of droplets and bubbles, as well as their interactions with hydrodynamic flows, solid boundaries and contaminants.

EDUCATION AND TRAINING

[01/2020 – 10/2022]

Master's Degree in Nanotechnology Engineering

Sapienza University of Rome

City: Rome | **Country:** Italy | **Final grade:** 110/110 cum laude | **Thesis:** "A mesoscale modeling of microflows in biological systems"

[09/2016 – 12/2019]

Bachelor's Degree in Chemical Engineering

Sapienza University of Rome

City: Rome | **Country:** Italy |

[09/2011 – 06/2016]

Secondary School Diploma in Classical Studies

Liceo Marconi

City: Colleferro | **Country:** Italy |

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

C - Programming language | PETSc library | Numerical Computing (MATLAB, Mathematica) | LaTeX | Operating System (Linux, Windows) | Microsoft Word, Microsoft Powerpoint

CONFERENCES AND SEMINARS

[16/09/2024 – 20/09/2024]

1st European Fluid Dynamics Conference (EFDC1) Aachen, Germany

[26/06/2023 – 30/06/2023]

Summer School - Liquid Interfaces, Drops and Sprays (LIDESP) Udine, Italy

TEACHING ACTIVITY

[09/2023 – Current]

Tutor Analysis I - Sapienza University of Rome

I have been acting as a tutor for the Analysis I exam in the Aerospace Engineering and Electrical Energy Engineering programs