LUCIA SIROTTI

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EDUCATION

June 2025 - Present	Postdoc at the Department of Industrial Engineering	
	Alma Mater Studiorum - University of Bologna	
Mar. 2024 - June 2024	Visiting Scholar at Texas A&M University	
	Dep. of Nuclear Engineering, Texas A&M University, College	Station, Texas, USA
	PROJECT: 3D multi-physics simulation of the steady state reg clear reactor (ALFRED), using the OpenFOAM based application	-
Jan. 2022 - June 2025	PhD in Mechanics and Advanced Engineering Sciences	
	Alma Mater Studiorum - University of Bologna	
	TITLE: Development of a CFD tool for turbulent natural convisions of liquid metals.	ection and heat transfer
July 2021	Qualifying examination for the profession of	
	INDUSTRIAL AND INFORMATION ENGINEER	Final Mark 59/60
	Alma Mater Studiorum - University of Bologna	
Dec. 2018 - Mar. 2021	Master's Degree in Energy Engineering	Final Mark $110L/110$
	Alma Mater Studiorum - University of Bologna	
Sept. 2015 - Dec. 2018	Bachelor's Degree in Energy Engineering	Final Mark $110L/110$
	Alma Mater Studiorum - University of Bologna	

WORK AND TEACHING EXPERIENCE

Feb. 2025 - June 2025	Teaching Tutor for Foundations of Informatics
	Course of BCs Energy Engineering at University of Bologna
Sept. 2023 - Dec. 2023	Teaching Tutor for Foundations of Informatics
	Course of BCs Mechanical Engineering at University of Bologna
Feb. 2023 - June 2023	Teaching Tutor for Foundations of Informatics
	Course of BCs Energy Engineering at University of Bologna
Feb. 2022 - June 2022	Teaching Tutor for Foundations of Informatics
	Course of BCs Energy Engineering at University of Bologna
May 2021 - Dec. 2021	Software Engineer
	Nier Ingegneria S.p.a.
	Main activity: development of critical software components (C programming language)

ADVANCED SCHOOL COURSES

July 2025	High-Performance Computing: A New Challenge in Wind Engineering – WE-HPC
	ANIV - ICSC - DICAM Unibo
January 2024	Core Modelling For Transient
	$GRE@T ext{-}PIONEeR\ project$

July 2023 Summer School on Parallel Computing

CINECA Academy

March 2022 Introduction to Parallel Computing with MPI and OpenMP

CINECA Academy

February 2022 Introduction to Python programming

CINECA Academy

June 2021 Introduction to Web-Technologies

Nier Software Academy - Nier Ingegneria S.p.a.

April 2021 Introduction to Scientific and Technical Computing in C and C++

CINECA Academy

CONFERENCES

May 2025 COUPLED PROBLEMS 2025

XI International Conference on Coupled Problems in Science and Engineering

September 2023 ICNAAM 2023

21st International Conference of Numerical Analysis and Applied Mathematics

June 2022 ECCOMAS CONGRESS 2022

8th European Congress on Computational Methods in Applied Sciences and Engineering

TECHNICAL SKILLS

- Four years of experience with academic CFD code development (C++), Pre-Post processing tools (Salome - Paraview) in a Linux environment.

- Sound knowledge of PDE discretizations, multigrid methods, finite elements and finite volumes.

- Familiar with parallel computing with MPI.

Operating System: Windows, Linux

Programming Languages:

C/C++: Upper Intermediate

Python: Intermediate MATLAB: Familiar

Software:

OpenFOAM: Upper Intermediate
Ansys meshing tools: Intermediate
Comsol Multiphysics: Familiar

LANGUAGES

Italian: Native Speaker English: Upper Intermediate

IELTS Certification: level B2 - 2020

Bologna, 15/07/2025