



Gianmarco Peschiera ghiggo

● ABOUT ME

Nuclear engineer specializing in the design and analysis of nuclear power systems, with particular emphasis in the physical study of nuclear reactors. Currently based in Rome, but willing to relocate globally to pursue challenging opportunities and contribute to projects of increasing complexity. Determined to expand his knowledge and skills to drive innovation in the nuclear industry.

● EDUCATION AND TRAINING

08/01/2024 – 12/01/2024 Valencia, Spain

GREAT PIOONER COURSE ON CORE MODELLING FOR CORE DESIGN Great Piooner (Educational course held at Universitat Politècnica de València)

This course aims to enable students to master the methods used for the neutron transport modelling at the core level in steadystate conditions using Monte Carlo and deterministic methods.

- Simulation activities with OpenMC and SP3-CODE
- Exercises on core design and operation of PWRs and BWRs.

Website <https://great-pioneer.eu/> | **Type of credits** European Credit transfer system | **Number of credits** 3

19/02/2024 – 23/02/2024 Valencia, Spain

GREAT PIOONER COURSE ON REACTOR TRANSIENTS, NUCLEAR SAFETY AND UNCERTAINTY AND SENSITIVITY ANALYSIS Great Piooner (Educational course held at Universitat Politècnica de València)

This course aims at giving the participants a full and comprehensive overview of:

- The principles of nuclear reactor safety and system behaviour from the point of view of nuclear safety.
- The principles of uncertainty and sensitivity analysis applie to nuclear reactor simulations and their importance in the evaluation of the simulations' results.

Website <https://great-pioneer.eu/> | **Type of credits** European credit transfer system | **Number of credits** 3

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN** | **SPANISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

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

● **HONOURS AND AWARDS**

13/07/2023

Awarded "La Sapienza" Scholarship for dissertation abroad (A.Y. 2022/2023) based on academic merit – Università di Roma La Sapienza

● **DIGITAL SKILLS**

Programming

Python | Microsoft Office | MATLAB | Serpent (Monte Carlo)

Technical

Advanced neutron trasport theory | Montecarlo Simulations | Nuclear reactor physics | Thermal-hydraulics

● **WORK EXPERIENCE**

05/03/2024 – 05/09/2024 Berkeley, United States

ACADEMIC EXPERIENCE AT UC BERKELEY UNIVERSITY OF CALIFORNIA, BERKELEY

Academic experience at UC Berkeley: six-month collaboration in the "Advanced Nuclear Reactors" team led by Prof. Massimiliano Fratoni to reevaluate the Encapsulated Nuclear Heat Source (ENHS) design, a lead fast reactor. Using the Monte Carlo Serpent code for neutron analysis and evaluation of reactor performance with alternative fuels.