GIOVANNI CORSI

EXPERIENCE

Sapienza Università di Roma - Dipartimento di Ingegneria Strutturale e Geotecnica

2021–   POSTDOC

Research contract at Sapienza University of Rome, working on problems of Fluid-Structure Interaction, and on Phase-Field models for problems of fracture in thin structures. Theoretical and numerical work, using the OpenFOAM and FEniCS libraries.
References: Professor Antonino FAVATA, Professor Stefano VIDOLI

Scuola Internazionale Superiore di Studi Avanzati (SISSA)

2014–2016   RESEARCH CONTRACT

Research contract at SISSA for Danieli SpA, an international company in the region. Tasks carried out included development of CFD tools for fluid-structure interaction problems and simulation of industrial flow problems. The numerical tools were developed within the OpenFOAM numerical library.
References: Professor Gianluigi ROZZA

EDUCATION

PhD

2016-2020   SISSA - Scuola Internazionale Superiore di Studi Avanzati

cum laude · *PhD in Mathematical Analysis, Modelling, and Applications* - Dottorato di ricerca in Analisi Matematica, Modelli e Applicazioni · Trieste, Italy
Thesis: *Fluid structure interaction problems involving thin active shells and microswimmers*
Advisor: Professor Antonio DE SIMONE

M. Sc.

2011-2014   Politecnico di Milano

110/110 · *Mechanical Engineering* - Laurea Magistrale in Ingegneria Meccanica · Milan, Italy
Thesis: *Numerical Analysis of the unsteady flow in a turbine stage with non-uniform temperature field at inlet*
Italian title: Analisi numerica del flusso instazionario in uno stadio di turbina assiale in presenza di disuniformità nel campo di temperatura in ingresso.
Advisor: Professor Giacomo Bruno PERSICO

B. Sc.

2008-2011   Università degli studi di Udine

110/110 *cum laude* · *Mechanical Engineering* - Laurea Triennale in Ingegneria Meccanica · Udine, Italy

EXPERIENCE ABROAD

January-June 2018, and December 2019 - March 2020

Sorbonne Université

Period of research carried over abroad in the *Institut Jean Le Rond d'Alembert* at Sorbonne Université · Paris, France
Scientific Host: Professor Corrado MAURINI

SKILLS

Programming Languages

C, C++, PYTHON

Numerical Libraries

Extensive experience in using numerical libraries for simulation of problems in the context of continuum mechanics or fluid dynamics, in particular OPENFOAM (finite volumes), FEniCS (finite elements)

HPC skills	Used HPC resources on various supercomputers in France (Jean-Zay, MeSU) and Italy (CINECA and SISSA resources) with various architectures.
HPC environments	PBS scheduler, SLURM scheduler
Languages	ITALIAN · Mothertongue
	ENGLISH · Fluent

HPC RESOURCES ALLOCATIONS AS PRINCIPAL INVESTIGATOR

2020   **Italian SuperComputing Resource Allocation (ISCRA, CINECA)**, *Application Class C*, Call of May 2020, Project ID - FSThin20.
Accepted, hours requested: 200k

2021   **Italian SuperComputing Resource Allocation (ISCRA, CINECA)**, *Application Class C*, Call of April 2021, Project ID - MCR-SW21.
Accepted, hours requested: 60k

2021   **Italian SuperComputing Resource Allocation (ISCRA, CINECA)**, *Application Class B*, Call of June 2021, Project ID - MT-SWS21.
Accepted, hours requested: 2.4M

March 6, 2022

Giovanni Corsi