

GIOVANNI CORSI

WORK EXPERIENCE

2014–2016 RESEARCH CONTRACT

Scuola Internazionale Superiore di Studi Avanzati (SISSA)

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.
Reference: Professor Gianluigi ROZZA

EDUCATION

2016–2020 SISSA - Scuola Internazionale Superiore di Studi Avanzati

PhD *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

2011–2014 Politecnico di Milano

M. Sc. 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

2008–2011 Università degli studi di Udine

B. Sc. 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

February 12, 2021

Giovanni Corsi