LUCA DI STASIO

Postdoctoral (Experienced) Researcher in Mechanical Engineering

Discovery Boulevard, G-3900, KAUST, Thuwal, Saudi Arabia

Italian & EU Citizen

Driving License B (IT)

(+966) 53 419 70 84 luca.distasio@gmail.com

PROFILE

Industrial engineer and scientific researcher expert in design and multi-physics modelling, I'm a creative problem-solver and challenge-driven. Experienced in conducting innovative projects from conception to exploitation, both as leader and collaborator.

EMPLOYMENT HISTORY

KAUST Thuwal, Saudi Arabia

Apr 2020 - Present **Postdoctoral (Experienced) Researcher**

- Led the development of multiple research projects from idea to publication in the field of large deformation elasticity of cracked Neo-Hookean bodies
- Developed automated software pipelines for the semi- and un-supervised generation and analysis of numerical models (mesh generation, CSM/CFD simulation, data analysis)
- o Developed routines for the visualization of multi-dimensional data
- o Disseminated results through the publication of journal articles
- o Presented results at international conferences

Université de Lorraine

Sep 2020 – Feb 2021 Guest Lecturer

- Established learning objectives, formulated assessment methods and designed learning activities of a Solid Mechanics course for 2nd year undergraduate students in Materials Science and Engineering delivered online
- o Delivered learning activities, provided extra-curricular support, assessed the achievement of learning outcomes
- o Managed remotely a team of 5 teaching assistants

LULEA UNIVERSITY OF TECHNOLOGY

Luleå, Sweden

Nancy, France

Jan 2018 – Dec 2019 Early-stage Researcher

- o Completed successfully an international research project between institutions in France, Sweden, and Germany
- o Developed automated software pipelines for the semi- and un-supervised generation and analysis of numerical models
- o Developed models of fracture for thin-ply laminates
- o Co-supervised master students' research projects
- O Disseminated results through the publication of journal articles
- o Presented results at international conferences and seminars

Université de Lorraine

Nancy, France

Sep 2015 – Dec 2017 Early-stage Researcher

- O Kickstarted an international research project (between institutions in France, Sweden and Germany)
- O Developed automated software pipelines for the semi- and un-supervised generation and analysis of numerical models (mesh generation, CSM/Fracture Mechanics simulation, data analysis)
- O Presented results at international conferences and seminars

ETH ZÜRICH Zürich, Switzerland

Sep 2013 – Aug 2015 **R&D Engineer**

- o Participated to the development of a coupled LBM-FEM code for staggered fluid-structure interaction
- Optimized the performance of an in-house code for multi-scale modeling of wood

IMDEA MATERIALS INSTITUTE

Madrid, Spain

Nov 2012 – Aug 2013 **Research Assistant**

- o Organized and completed successfully an international research project between institutions in Italy and Spain
- o Independently designed and conducted a series of mechanical tests to address the effect of loading rate on composites
- o Developed CAE models and conducted FEM analysis of the experiments
- Implemented routines for feature detection and extraction of Fracture Mechanics parameters from video recordings of experiments

EDUCATION					
Sep 2015 – Dec 2019		POLYMERIC COMPOSITE MA	TERIALS	Luleå, Swede	
Sep 2015 – Dec 2019	РнД	MATERIALS SCIENCE			
	Université de Lorraine Nan			Nancy, Franc	
Nov 2013		INDUSTRIAL ENGINEERING CO DI MILANO		Milano, Ita	
Oct 2010 – Oct 2013	MSC SPACE ENGINEERING G		PA 110/110		
	POLITECNICO DI MILANO			Milano, Ital	
Sep 2011 – Jun 2012	MSC DREXEL U	MECHANICAL ENGINEERING NIVERSITY	Gl	PA 4/4 Philadelphia, US.	
Sep 2007 – Sep 2010	BSC AEROSPACE ENGINEERING GPA 110/110 POLITECNICO DI MILANO		PA 110/110 Milano, Ital		
Professional Dev	ELOPMENT	(SELECTED)			
May 2021	STRUCTURING MACHINE LEARNING PROJECTS				
	DEEPLEAR	NING.AI (THROUGH COURSERA)		US	
Apr 2021		NEURAL NETWORKS AND DEEP LEARNING			
		NING.AI (THROUGH COURSERA)		US	
May – Jul 2018		FUNDAMENTALS OF BUSINESS CERTIFICATE QUANTIC SCHOOL OF BUSINESS AND TECHNOLOGY (PREVIOUSLY SMARTLY) USA			
Sep – Nov 2016		PROJECT MANAGEMENT			
Sep 1.0. 2010		NTRALE LILLE		Franc	
Jul 2015		VE EXPLOITATION OF HIGH I	PERFORMAN	ICE COMPUTING SYSTEMS Switzerlan	
May – Oct 2010	CNC TE	CHNICIAN CERTIFICATE			
,		FORMAZIONE SALESIANO DON BOS	SCO	Ital	
	C++ Shell Abaq script HTM	·	R Matla Es OpenFOA OpenMP	1	
TECHNICAL SKILLS		facturing and testing of FRP	_	ng CNC and precision machines	
Milling, turning, drilling Optical and digital mi	-	CAD/CAE/CAM Scanning electron microscopy		cuit design and manufacturing rain and stress measurements	
Project managem		Funding and budgeting		cal writing and communication	
Languages	Italian	Native speaker	English	Highly proficient	
LANGUAGES	French	-	Spanish		
	LICHUL	Highly proficient	Spanisn	Highly proficient	