

LUCA DI STASIO
Postdoctoral Researcher/Scientist

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

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Driving License B (IT)
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Dear Andy,

Dear Hiring Team,

My Ph.D. in Materials Science and Engineering and more than 2 years as a postdoctoral fellow in Mechanical Engineering, along with my multidisciplinary engineering background, provide me with the skills to support the growth of your client in a Research and Development Manager capacity.

During my professional journey I contributed to projects in several fields, from ankle biomechanics to the design of nano-sized electromagnetic sensors, from modeling and prediction of damage in fiber-reinforced composites to multi-scale modeling of wood, from coupled fluid-structure interaction to large displacement analysis of cracking in hydrogels. I offer proficiency in managing international R&D projects with uncertain boundaries, evolving requirements, and multiple stakeholders from ideation to exploitation, as well as experience in research funding and budgeting. I have multiple years of experience in mechanical testing and I am expert in several programming languages, as outlined in my CV.

The opportunity of living and working in several countries has allowed me not only to become fluent in different languages but most importantly to master cross-cultural communication skills. Flexibility, adaptability, and rapid response to change are qualities that I have nurtured by navigating multiple work environments. Honesty, transparency, and a positive attitude towards challenges have helped me earn the trust of colleagues and management alike. The ability to communicate candidly in the workplace has allowed me to build a broad network across different countries and scientific fields.

I am eager to put my skills and experience in service of your client's mission, and I am confident we should arrange a time to meet. In the meantime, I wish to thank you for taking the time to consider my application and review my qualifications.

Sincerely,

Luca Di Stasio

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PROFILE

Scientific researcher and software simulation engineer, I'm a creative problem-solver and challenge-driven. Experienced in managing R&D projects from conception to exploitation, both as leader and collaborator.

EMPLOYMENT HISTORY

KAUST

Thuwal, Saudi Arabia

Apr 2020 - Present

Postdoctoral Researcher/Scientist

- 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)
- Developed routines for the visualization of multi-dimensional data
- Disseminated results through the publication of journal articles
- Presented results at international conferences

UNIVERSITÉ DE LORRAINE

Nancy, France

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
- Delivered learning activities, provided extra-curricular support, assessed the achievement of learning outcomes
- Managed remotely a team of 5 teaching assistants

LULEÅ UNIVERSITY OF TECHNOLOGY

Luleå, Sweden

Jan 2018 – Dec 2019

Early-stage Researcher/Junior Scientist

- Completed successfully an international research project between institutions in France, Sweden, and Germany
- Developed automated software pipelines for the semi- and un-supervised generation and analysis of numerical models (mesh generation, CSM/Fracture Mechanics simulation, data analysis)
- Co-supervised master students' research projects
- Disseminated results through the publication of journal articles
- Presented results at international conferences and seminars

UNIVERSITÉ DE LORRAINE

Nancy, France

Sep 2015 – Dec 2017

Early-stage Researcher/Junior Scientist

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

ETH ZÜRICH

Zürich, Switzerland

Sep 2013 – Aug 2015

R&D Engineer

- 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

- Organized and completed successfully an international research project between institutions in Italy and Spain
- Independently designed and conducted a series of mechanical tests to address the effect of loading rate on composites
- 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	PHD POLYMERIC COMPOSITE MATERIALS		
	LULEÅ UNIVERSITY OF TECHNOLOGY		Luleå, Sweden
Sep 2015 – Dec 2019	PHD MATERIALS SCIENCE		
	UNIVERSITÉ DE LORRAINE		Nancy, France
Nov 2013	PE INDUSTRIAL ENGINEERING		
	POLITECNICO DI MILANO		Milano, Italy
Oct 2010 – Oct 2013	MSC SPACE ENGINEERING	GPA 110/110	
	POLITECNICO DI MILANO		Milano, Italy
Sep 2011 – Jun 2012	MSC MECHANICAL ENGINEERING	GPA 4/4	
	DREXEL UNIVERSITY		Philadelphia, USA
Sep 2007 – Sep 2010	BSC AEROSPACE ENGINEERING	GPA 110/110	
	POLITECNICO DI MILANO		Milano, Italy

PROFESSIONAL DEVELOPMENT (SELECTED)

May 2021	STRUCTURING MACHINE LEARNING PROJECTS		
	DEEPLARNING.AI (THROUGH COURSERA)		USA
Apr 2021	NEURAL NETWORKS AND DEEP LEARNING		
	DEEPLARNING.AI (THROUGH COURSERA)		USA
May – Jul 2018	FUNDAMENTALS OF BUSINESS CERTIFICATE		
	QUANTIC SCHOOL OF BUSINESS AND TECHNOLOGY (PREVIOUSLY SMARTLY)		USA
Mar 2018	RESEARCH FUNDING		
	LULEÅ UNIVERSITY OF TECHNOLOGY		Sweden
Sep – Nov 2016	PROJECT MANAGEMENT		
	ECOLE CENTRALE LILLE		France
Jul 2015	EFFECTIVE EXPLOITATION OF HIGH PERFORMANCE COMPUTING SYSTEMS		
	SWISS NATIONAL SUPERCOMPUTING CENTER		Switzerland

COMPUTER SKILLS			C++	Python	Julia	Fortran	R	Matlab	Mathematica	Maple
Windows Batch	Unix Shell		Abaqus	Ansys	Comsol	FEniCs	OpenFOAM		Thermal Desktop	AutoCAD
SQL	Git	Javascript	HTML	CSS	VBA	Excel	OpenMP	MPI	CUDA	OpenACC

TECHNICAL SKILLS	Manufacturing and testing of FRP	Operating CNC and precision machines
Milling, turning, drilling, welding	CAD/CAE/CAM	Circuit design and manufacturing
Optical and digital microscopy	Scanning electron microscopy	Strain and stress measurements
Project management	Funding and budgeting	Technical writing and communication

LANGUAGES	Italian	Native speaker	English	Highly proficient
	French	Highly proficient	Spanish	Highly proficient
	German	Working knowledge	Swedish	Working knowledge