LUCA DI STASIO

Postdoctoral Researcher

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

D-CPR Certified   **Driving License B (IT)**

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PROFILE   University researcher and experienced educator, I combine formal studies in pedagogy, a multidisciplinary engineering background and many years of experience teaching students at different levels.

EMPLOYMENT HISTORY

KAUST   Thuwal, Saudi Arabia

Apr 2020 - Present   **Postdoctoral Researcher**
- o Developed software pipelines for the semi- and un-supervised generation and analysis of numerical models
- o Disseminated results through scholarly journal articles and presentations at international conferences

UNIVERSITÉ DE LORRAINE   Nancy, France

Sep 2020 – Feb 2021   **Guest Lecturer**
- o Established learning objectives, formulated assessment methods and designed learning activities of a Solid Mechanics course for 2nd year undergraduate students in Materials Science & Engineering delivered online
- o Delivered learning activities, provided extra-curricular support, assessed and graded the achievement of learning outcomes
- o Managed remotely a team of 5 teaching assistants

LULEÅ UNIVERSITY OF TECHNOLOGY   Luleå, Sweden

Jan 2018 – Dec 2019   **University Teaching Assistant & Early-stage Researcher**
- o Delivered learning activities in the field of Experimental Composite Mechanics to 1st and 2nd year international master students in Materials Science and Engineering
- o Co-supervised master students' research projects
- o Developed software pipelines for the semi- and un-supervised generation and analysis of numerical models
- o Disseminated results through scholarly journal articles and presentations at international conferences

UNIVERSITÉ DE LORRAINE   Nancy, France

Sep 2016 – Dec 2017   **University Teaching Assistant & Early-stage Researcher**
- o Delivered learning activities in the field of Experimental Mechanics, Mechanics of Materials, and Computational Mechanics of Composite Materials to 2nd and 3rd year undergraduate and 1st year graduate students in Materials Science and Engineering
- o Developed software pipelines for the semi- and un-supervised generation and analysis of numerical models
- o Presented results at international conferences and seminars

THE LEARNING CENTER ZÜRICH   Zürich, Switzerland

Dec 2014 – Aug 2015   **Personal Tutor**
- o Designed and delivered learning activities for high school and undergraduate students in STEM subjects

ETH ZÜRICH   Zürich, Switzerland

Sep 2013 – Aug 2015   **Early-stage Researcher**
- o Participated to the development of a coupled LBM-FEM code for staggered fluid-structure interaction

POLITECNICO DI MILANO   Milano, Italy

Jan 2011 – Jun 2011   **Personal Tutor**
- o Designed and delivered learning activities for an undergraduate student in Aerospace Engineering with special needs

ISTITUTO SACRO CUORE   Milano, Italy

Oct 2009 – Jun 2011   **Learning Support Teacher**
- o Designed and delivered learning activities for high school students in STEM and Humanities

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
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)

Oct – Dec 2021	**HIGHER EDUCATION TEACHING CERTIFICATE**	
	HARVARD UNIVERSITY (THROUGH HARVARDX)	USA
Mar 2021	**FRENCH NATIONAL QUALIFICATION AS ASSISTANT/ASSOCIATE PROFESSOR**	
	MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE	France
Sep – Nov 2020	**CARPENTRIES TRAINER TRAINING**	
	THE CARPENTRIES	USA
Jun – Jul 2020	**CARPENTRIES MAINTAINER TRAINING**	
	THE CARPENTRIES	USA
Sep 2018 – Jan 2019	**SWEDISH QUALIFYING COURSE FOR UNIVERSITY TEACHERS**	
	LULEÅ UNIVERSITY OF TECHNOLOGY	Sweden
Jun – Sep 2017	**CARPENTRIES INSTRUCTOR TRAINING**	
	THE CARPENTRIES	USA
Sep – Nov 2016	**PROJECT MANAGEMENT**	
	ECOLE CENTRALE LILLE	France

COMPUTER SKILLS

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

LANGUAGES

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

TEACHING

COURSES

Sep 2020 – Feb 2021	SOLID MECHANICS (IN FRENCH)	
	EEIGM, UNIVERSITÉ DE LORRAINE	Nancy, France

Main Instructor(s): Luca Di Stasio
TA(s): Thomas Villemin, Zoubir Ayadi, Jean-Philippe Tinnes, Marc Ponçot, Stéphane Andre

2018 - 2019	COMPOSITE MATERIALS	
Autum and Spring Term	LULEÅ UNIVERSITY OF TECHNOLOGY	Luleå, Sweden

Main Instructor(s): Liva Pupure, Janis Varna
TA(s): Luca Di Stasio, Hiba Ben Kahla, Nawres Al-Ramahi

2018 - 2019	AEROSPACE MATERIALS	
Spring Term	LULEÅ UNIVERSITY OF TECHNOLOGY	Luleå, Sweden

Main Instructor(s): Janis Varna
TA(s): Luca Di Stasio, Hiba Ben Kahla, Nawres Al-Ramahi

2018 - 2019	COMPOSITES: DESIGN AND NUMERICAL METHODS	
Autum Term	LULEÅ UNIVERSITY OF TECHNOLOGY	Luleå, Sweden

Main Instructor(s): Andrejs Pupurs
TA(s): Luca Di Stasio

2018 - 2019	MECHANICS OF FIBER COMPOSITES	
Spring Term	LULEÅ UNIVERSITY OF TECHNOLOGY	Luleå, Sweden

Main Instructor(s): Liva Pupure
TA(s): Luca Di Stasio

Sep – Dec 2017	COMPOSITE MATERIALS (IN FRENCH)	
	EEIGM, UNIVERSITÉ DE LORRAINE	Nancy, France

Main Instructor(s): Yves Meshaka
TA(s): Luca Di Stasio

Sep – Dec 2017	MECHANICS OF MATERIALS I (IN FRENCH)	
	EEIGM, UNIVERSITÉ DE LORRAINE	Nancy, France

Main Instructor(s): Zoubir Ayadi
TA(s): Luca Di Stasio, Franck Cleymand, Eloh Komlavi

Feb – Jun 2017	SOLID MECHANICS (IN FRENCH)	
	EEIGM, UNIVERSITÉ DE LORRAINE	Nancy, France

Main Instructor(s): Yves Meshaka
TA(s): Luca Di Stasio

LECTURES AND WORKSHOPS

2022, May 19	INTRODUCTION TO SCIENTIFIC COMPUTING AND DATA ANALYSIS WITH NUMPY (IN ITALIAN)	
	SOFTWARE SUSTAINABILITY INSTITUTE	Online

Main Instructor(s): Luca Di Stasio
TA(s): Giacomo Peru

2022, Jan 27-28/Feb 3-4	SOFTWARE CARPENTRY WORKSHOP: INTRODUCTION TO PYTHON, SHELL AND GIT (IN ITALIAN)	
	CARPENTRIES ITALIA AND ELIXIR ITALIA	Online

Main Instructor(s): Marco Crotti, Silvia Di Giorgio, Luca Di Stasio, Lisanna Paladin, Martino Sorbaro

	TA(s): Giacomo Peru, Loredana Le Pera
2021, Sep 9-10/16-17	SOFTWARE CARPENTRY WORKSHOP: INTRODUCTION TO PYTHON, SHELL AND GIT (IN ITALIAN)
	CARPENTRIES ITALIA AND ELIXIR ITALIA Online

Main Instructor(s):   Silvia Bonaiuto, Vincenza Colonna, Marco Crotti, Gianluca Damaggio, Luca Di Stasio, Loredana Le Pera, Mariano Mollo, Giuseppe Profiti, Martino Sorbaro, Allegra Via, Lisanna Paladin

2021, Mar 19/26	SOFTWARE CARPENTRY WORKSHOP: INTRODUCTION TO PYTHON, SHELL AND GIT (IN ITALIAN)
	CARPENTRIES ITALIA Online

Main Instructor(s):   Luca Di Stasio, Giorgia Mori, Giacomo Peru, Giuseppe Profiti, Martino Sorbaro

TA(s):   Fabrizio Donzelli, Annarita Marrano, Mosè Giordano, Loredana Le Pera

2021, Mar 3-4	THE CARPENTRIES INSTRUCTOR TRAINING WORKSHOP
	THE CARPENTRIES Online

Main Instructor(s):   Luca Di Stasio, Jason Williams

2020, Oct 21-23	DATA CARPENTRY GENOMICS WORKSHOP
	NORD UNIVERSITY Online

Main Instructor(s):   Luca Di Stasio, Endre Sebestyén

TA(s):   Abdurhman Kelil Ali, Kari Haugset Alterskjær, Tadeu Fernando Nogueira

2020, Oct 14-16	DATA CARPENTRY ECOLOGY WORKSHOP
	NORD UNIVERSITY Online

Main Instructor(s):   Luca Di Stasio, Endre Sebestyén

TA(s):   Abdurhman Kelil Ali, Kari Haugset Alterskjær, Tadeu Fernando Nogueira

2020, June 22 – July 2	DATA CARPENTRY ECOLOGY WORKSHOP
	BIOTECH PARTNERS Online

Main Instructor(s):   Luca Di Stasio, Rohit Goswami, Sue McClatchy, Chandra Sarkar, Sayane Shome

2020, January 9-10	SOFTWARE CARPENTRY/LIBRARY CARPENTRY WORKSHOP: INTRODUCTION TO PYTHON
	KING'S COLLEGE LONDON London, UK

Main Instructor(s):   Luca Di Stasio

TA(s):   Stefania Marcotti, Walter Muruez Gutierrez, Neil Jakeman, Alessia Visconti, Natasha Romanova, Fiona Wardle

2019, November 21-22	SOFTWARE CARPENTRY WORKSHOP: INTRODUCTION TO PYTHON, SHELL AND GIT
	UNIVERSITÄT STUTTGART Stuttgart, Germany

Main Instructor(s):   Monah Abou Alezz, Luca Di Stasio

TA(s):   Dorothea Iglezakis, Ralf Diestelkämper, Michael Stegmüller, Anett Seeland, Sibylle Hermann

2018, October 9-10	SOFTWARE CARPENTRY WORKSHOP: INTRODUCTION TO R, SHELL AND GIT
	HPC2N, UMEÅ UNIVERSITY Umeå, Sweden

Main Instructor(s):   Alistair Bailey, Luca Di Stasio

TA(s):   Birgitte Briydsö, Pedro Ojeda