












Luca Di Stasio

Early Stage Researcher

-  D-CPR Certified (FR, SE)
-  Driver License Cat. B (IT)
-  Italian & EU citizen
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Computer Skills

-  Operating Systems
 - Linux (Ubuntu, OpenSUSE, CentOS)
 - Windows (>95), Mac OS X (>10.6)
-  Languages
 - C, C++, Python, Perl, Java, Fortran
 - VBA, Javascript, HTML(5), CSS
 - Bash, Windows Batch Scripting
-  High Performance Computing
 - OpenMP, MPI, CUDA, OpenACC
-  Scientific Computing & Statistics
 - Numpy, Scipy, R, Stata
 - Matlab, Mathematica, Octave, Maple
 - Excel, G-Sheets, LibreOffice Calc
-  CAD, CAM, CAE
 - Autocad, Solid Edge, G-code
 - Abaqus, Ansys, Comsol Multiphysics
 - CalculiX, FEniCS, Code_Aster
 - OpenFOAM, Thermal Desktop
-  Web Development
 - AJAX, JQuery, Bootstrap, Angular
 - React, D3, Node.js, Npm
-  Databases
 - SQL, MongoDB
-  Versioning
 - Git, Github
-  Writing & Reporting
 - Latex, Tikz, Beamer, Word, Powerpoint

Work Experience

Research & Development

- currently **Early stage researcher** Luleå tekniska universitet (Luleå, Sweden)
Polymeric Composite Materials Group, TVM
Project(s): Mechanics of extreme thin composite layers for aerospace applications, Effect of aging on transverse cracking in GFRPC, Temperature and loading rate effect on transverse cracking in GFRPC
Working language(s): Swedish, English
- 2015 - **Early stage researcher** Université de Lorraine (Nancy, France)
2017 Mechanics of Materials Group, SI2M, IJL
Project(s): Mechanics of extreme thin composite layers for aerospace applications
Working language(s): French, English
- 2013 - **Early stage researcher** ETH Zürich (Zürich, Switzerland)
2015 Computational Physics for Engineering Materials Group, D-BAUG
Projects: Fluid-structure interaction on deformable surfaces, Multi-scale modeling of wood
Working language(s): German, English
- 2012 - **Research assistant** IMDEA Materials Institute (Madrid, Spain)
2013 Structural Composites Group
Project(s): Loading rate effects on interlaminar fracture toughness in advanced CFRP.
Working language(s): Spanish, English
- 2012 **Research assistant** Drexel University (Philadelphia, USA)
Mesoscale Materials Laboratory & BioMechanics Laboratory
Project(s): Design of nano-resonators for environmental electromagnetic field detection, Talus morphology and its relationship to the kinematics of the ankle joint.
Working language(s): English

Teaching & Supervision

- currently **University Teaching Assistant** Luleå tekniska universitet (Luleå, Sweden)
Subjects: Elasticity, Rheological models, Fracture mechanics, Experimental methods, Mechanics of Composite Materials, Laminate Analysis, Finite Element Method.
Working language(s): English
- 2016 - **University Teaching Assistant** Université de Lorraine (Nancy, France)
2017 *Subjects*: Mechanics of materials, Elasticity, Rheological models, Fracture mechanics, Experimental methods, Mechanics of Composite Materials, Finite Element Method
Working language(s): French
- 2014 - **Tutor** The Learning Center Zürich (Zürich, Switzerland)
2015 *Subjects*: Mathematics, Physics, Statistics, Econometrics, Java programming
Working language(s): German, English
- 2011 **Tutor** Politecnico di Milano (Milano, Italy)
Subjects: Calculus
Working language(s): Italian
- 2009 - **Tutor** Scientific High School Istituto Sacro Cuore (Milano, Italy)
2011 *Subjects*: Mathematics, Physics, Biology, Italian Language and Literature, Latin Language and Literature, History
Working language(s): Italian

Institutional and Administrative Activities

- 2019 **CompTest 2019 organising committee** (Luleå, Sweden)
9th International Conference on Composite testing and model identification
Design and creation of interactive book of abstracts, creation and design of conference proceedings website
Working language(s): English
- 2008 - **Student Representative** Politecnico di Milano (Milano, Italy)
2011 Student representative in the board of the Department of Aerospace Engineering and in the board of the School of Industrial Engineering at Politecnico di Milano
Working language(s): Italian








Volunteer Work

- currently **Instructor** The Carpentries (CA, USA)
Conducting workshops to teach foundational coding and data science skills (Unix Shell, Git, Python, R) to researchers
Working language(s): English

Technical Skills

-  **Mechanical & Electrical Engineering**
Creation of Drawings & Specifications
Circuit Design & Assembly
Milling, Turning, Drilling, Welding
Operating CNC & Precision Machines
-  **Composites Science & Technology**
Hand layup, Resin Molding & Casting
Specimen Cutting & Polishing
UTM Testing, Strain Measurements
Optical & Digital Microscopy, SEM
-  **Project Management**
Goals & Specifications Formulation
Planning, Scheduling & Supervision
Funding & Budgeting
-  **Technical Writing & Communication**
Technical Reports, Scientific Articles
Seminar & Conference Presentations
Meeting, Video-Conferencing

Languages

-  **Italian (mother tongue)**
 - Speaking ● ● ● ● ●
 - Writing ● ● ● ● ●
 - Reading ● ● ● ● ●
-  **English (fluent)**
 - Speaking ● ● ● ● ●
 - Writing ● ● ● ● ●
 - Reading ● ● ● ● ●
-  **French (fluent)**
 - Speaking ● ● ● ● ●
 - Writing ● ● ● ● ●
 - Reading ● ● ● ● ●
-  **Spanish (fluent)**
 - Speaking ● ● ● ● ●
 - Writing ● ● ● ● ●
 - Reading ● ● ● ● ●
-  **German (satisfactory)**
 - Speaking ● ● ● ● ●
 - Writing ● ● ● ● ●
 - Reading ● ● ● ● ●
-  **Swedish (rudimentary)**
 - Speaking ● ● ● ● ●
 - Writing ● ● ● ● ●
 - Reading ● ● ● ● ●
-  **Russian (rudimentary)**
 - Speaking ● ● ● ● ●
 - Writing ● ● ● ● ●
 - Reading ● ● ● ● ●

Education

Higher Education

- 2015 - **Joint European Doctor of Philosophy Degree in Advanced Materials Science and Engineering (DocMASE)**
Luleå tekniska universitet (Luleå, Sweden) and Université de Lorraine (Nancy, France)
PhD in Polymeric Composite Materials (exp. 2019), Luleå tekniska universitet
PhD in Materials Science & Engineering (exp. 2019), Université de Lorraine
Working language(s): English, French, Swedish
- 2013 **Professional License, Industrial Engineering**
Politecnico di Milano (Milano, Italy)
Working language(s): Italian
- 2010 - **Double Master of Science degree EAGLES (Engineers as Global Leaders for Energy Sustainability)**
Politecnico di Milano (Milano, Italy), Drexel University (Philadelphia, USA) and Universidad Politécnica de Madrid (Madrid, Spain)
MSc in Space Engineering, 110/110 (2013), Politecnico di Milano
MSc in Mechanical Engineering, 4/4 (2012), Drexel University
Working language(s): Italian, English, Spanish
- 2007 - **Bachelor of Science in Aerospace Engineering, 110/110**
2010 Politecnico di Milano (Milano, Italy)
Working language(s): Italian
- 2002 - **Scientific High School Diploma, 100/100 cum Laude**
2007 Scientific High School Istituto Sacro Cuore (Milano, Italy)
Working language(s): Italian
- 1997 - **Cello Studies**
2007 Municipal School of Music (Cernusco s/N, Italy)
Working language(s): Italian

Selected Courses & Seminars

- 2018 - **Qualifying Course for University Teachers**
2019 Luleå tekniska universitet (Luleå, Sweden)
In-Class Course and Verified Certificate of Completion
Working language(s): English
- 2017 **Software Carpentry Instructor Training Program**
The Carpentries (California, USA)
Remote Interactive Course and Certificate of Completion
Working language(s): English
- 2016 **Project Management MOOC - Classic Course**
Centrale Lille and Unow (Lille, France)
Online MOOC and Certificate of Completion
Working language(s): French
- 2015 **Corporate Social Responsibility (CSR) and Value Creation**
Audencia Nantes Business School (Nantes, France)
Online MOOC and Verified Certificate of Completion
Working language(s): English
- 2015 **2015 Summer School on Effective High Performance Computing**
CSCS and Università della Svizzera Italiana (Lugano, Switzerland)
In-Class Course, Hands-on Training and Certificate of Completion
Working language(s): English

Vocational Training

- 2009 **CNC Technician**
Centro di Formazione Professionale Salesiano Don Bosco (Milano, Italy)
In-Class Course, Hands-on Training and Certificate of Competence
Working language(s): Italian

Memberships

- Since **Ordine degli Ingegneri della Provincia di Milano (Society of Licensed Engineers of Milan)**
2014
- Since **The Carpentries**
2017

References

- ✉ Prof. Janis Varna (supervisor)
Luleå tekniska universitet (Luleå, SE)
janis.varna@ltu.se
- ✉ Prof. Zoubir Ayadi (supervisor)
Université de Lorraine (Nancy, FR)
zoubir.ayadi@univ-lorraine.fr
- ✉ Dr. Johanna Xu (former colleague)
Chalmers tekniska högskola
(Göteborg, SE)
johannax@chalmers.se

Honors & Awards

- 2019 **Wallenberg Jubileumsanslaget Travel Grant**
Knut and Alice Wallenberg Foundation
Travel expenses for the participation to the *12th International Conference on Composite Science and Technology*
- 2015 - **Erasmus Mundus Fellowship**
2018 European Commission
Salary and travel expenses for the participation to the *Joint European Doctoral Programme in Advanced Materials Science and Engineering (DocMASE)*
- 2015 **Academic Excellence Award**
BCC (Banca di Credito Cooperativo) di Cernusco s/N (now BCC di Milano) (Milano, Italy)
Award for excellence in graduate studies at Politecnico di Milano (Milano, Italy)
- 2013 **PEGASUS award**
PEGASUS - The European Network of Excellence in Aerospace Engineering Education
Statement of recognition of special achievements in European cooperation through working abroad for academic research or industrial development projects
- 2012 - **Erasmus Fellowship**
2013 European Commission
Salary and travel expenses to conduct a research project at IMDEA Materials Institute (Madrid, Spain), as part of the *Double Master Degree Program EAGLES (Engineers as Global Leaders for Energy Sustainability)*
- 2011 - **EU-US Atlantis Program Fellowship**
2012 European Commission and U.S. Department of Education
Full tuition, salary and travel expenses to conduct graduate studies at Drexel University (Philadelphia, USA), as part of the *Double Master Degree Program EAGLES (Engineers as Global Leaders for Energy Sustainability)*
- 2012 **Academic Excellence Award**
BCC (Banca di Credito Cooperativo) di Cernusco s/N (now BCC di Milano) (Milano, Italy)
Award for excellence in undergraduate studies at Politecnico di Milano (Milano, Italy)
- 2007 - **Merit-based tuition fees exemption**
2010 Politecnico di Milano (Milano, Italy)
Merit-based partial exemption from tuition fees to conduct undergraduate studies at Politecnico di Milano (Milano, Italy)
- 2007 **Academic Excellence Award**
BCC (Banca di Credito Cooperativo) di Cernusco s/N (now BCC di Milano) (Milano, Italy)
Award for excellence in high school studies at Scientific High School Istituto Sacro Cuore (Milano, Italy)
- 2007 **Academic Excellence Award**
Ministero dell'Istruzione, dell'Università e della Ricerca (Italian government)
Award for excellence in high school studies at Scientific High School Istituto Sacro Cuore (Milano, Italy)