

Luca Di Stasio

Early Stage Researcher

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

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 University of Technology, Luleå, Sweden
Polymeric Composites Group, TVM.
Projects: Mechanics of extreme thin composite layers for aerospace applications; Effect of ageing on transverse cracking in GFRPC; Temperature and loading rate effect on transverse cracking in GFRPC.
Working languages: Swedish, English.
- 2015 - **Early stage researcher** Université de Lorraine, Nancy, France
2017 Mechanics of Materials Group, SI2M, IJL, EEIGM.
Projects: Mechanics of extreme thin composite layers for aerospace applications.
Working languages: 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 languages: German, English.
- 2012 - **Research assistant** IMDEA Materials Institute, Madrid, Spain
2013 Structural Composites Group.
Projects: Loading rate effects on interlaminar fracture toughness in advanced CFRP.
Working languages: Spanish, English.
- 2012 **Research assistant** Drexel University, Philadelphia, USA
Mesoscale Materials Laboratory & BioMechanics Laboratory.
Projects: Design of nano-resonators for environmental electromagnetic field detection; Talus morphology and its relationship to the kinematics of the ankle joint.
Working languages: English.

Teaching & Supervision

- currently **Teaching Assistant** Luleå University of Technology, Luleå, Sweden
Subjects: Elasticity, Rheological models, Fracture mechanics, Experimental methods, Mechanics of Composite Materials, Laminate Analysis.
Working languages: English.
- 2016 - **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 languages: French.
- 2014 - **Tutor** The Learning Center Zürich, Zürich, Switzerland
2015 *Subjects:* Mathematics, Physics, Statistics, Econometrics, Java programming.
Working languages: German, English.
- 2011 **Tutor** Politecnico di Milano, Milano, Italy
Subjects: Calculus.
Working languages: 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 languages: Italian.

Institutional and Administrative Activities

- 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 languages: 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.

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

Postgraduate Training

- 2009 – **Post-Doc Panda Studies** Panda Academy
2010 In-depth studies on the impact of bamboo nutrition for young pandas and its relation to relaxing, sleeping and snoozing parts of the day.
- 2008 – **Research Stay Europe** European Panda Labs
2009 Spending one year abroad teaching european panda facilities about the newest findings and research in the field of asian rice hat covers and applications for bamboo as a material.

Study

- 2006 – **Master Studies Panda Science** Panda Academy
2008 Focus: Advanced rice hat studies and nouveau rain-reflecting cover materials.
Master Theses (Ø 1, 0) Asian Rice Hat Institute
Impact on solar radiation onto rice hat cover materials with special attention to water resistance.
- 2003 – **Bachelor Studies PandaScience** Panda Academy
2006 Focus: Bamboo morphology and its usage in different craftmanships.
Bachelor Theses (Ø 1, 0) Bamboo Institute
The bambo flute: An underestimated instrument in orchestras?

Publications

- 2010 Cooking: 100 recipes for lazy Pandas Panda's Culinary World
- 2005 Pandastasia Bamboo Books Assoc.
- 2000 The Panda Way - A guide for mastering everyday life as a Panda Young Panda's Journal

Awards

- 2010 – Panda of the Year Panda World Forum
- now
2005 – Face of World Wide Fund for Nature WWF
- now
2000 Winner of Bamboo Sprouts Eating Contest Bamboo Society

Extra-Curricular Activities

- Relaxing Master the fine art of relaxing everywhere
- Music Playing the bamboo flute in the 1st Panda Orchestra
- EducationTeaching young pandas to be more panda-like