



Luca Di Stasio

Curriculum Vitae

Work contact information

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Other personal information

Nationality Italian
Place of birth Cernusco s/N, Milano, Italy
Date of birth April 19th, 1988
Marital status Single
Driving licenses Italian driving license, cat. B

Work experience

Research activities and interests

- Oct. 2015 - **Predoctoral research fellow**, *Université de Lorraine*, Nancy, France.
Present *Mechanics of Materials Group, Department of Metallurgical and Materials Science and Engineering (SI2M), Institute Jean Lamour, Ecole Européenne d'Ingénieurs en Génie des Matériaux (EEIGM), Université de Lorraine*
Project: Mechanics of extreme thin composite layers for aerospace applications.
- 2013 - 2015 **Research assistant**, *ETH Zürich*, Zürich, Switzerland.
Computational Physics for Engineering Materials Group, Institute for Building Materials, Department of Civil, Environmental and Geomatic Engineering, ETH Zürich
Project: Multi-scale modeling of wood.
Project: Fluid-structure interaction on deformable surfaces.
- 2012 - 2013 **Research assistant**, *IMDEA Materials Institute*, Getafe, Madrid, Spain.
Structural Composites Group, IMDEA Materials Institute
Project: Loading rate effects on mode I, mode II and mixed mode I-II delamination in advanced CFRP.
- Jan. - Jun. **Research assistant**, *Drexel University*, Philadelphia, USA.
2012 *Mesoscale Materials Laboratory, Department of Materials Science & Engineering, Institute for Energy & the Environment, Drexel University*
Project: Design of nano-resonators for environmental electromagnetic field detection.
- Jan. - Jun. **Research assistant**, *Drexel University*, Philadelphia, USA.
2012 *BioMechanics Laboratory, Department of Mechanical Engineering & Mechanics, Drexel University*
Project: Morphological properties of the talus and their relationship to the kinematics of the ankle joint.

Teaching activities and interests

- 2014 - 2015 **Tutor**, *The Learning Center Zürich*, Zürich, Switzerland.
I worked as a teacher of extracurricular activities of tutoring for high school and undergraduate students.
Subjects: Mathematics, Physics, Statistics, Econometrics, Java programming.
- Mar. - Jul. **Tutor**, *Politecnico di Milano*, Milano, Italy.
2011 I worked as tutor of an undergraduate student with disabilities.
Subjects: Calculus.
- 2009 - 2011 **Tutor**, *Scientific High School Istituto Sacro Cuore*, Milano, Italy.
I worked as a teacher of extracurricular activities of tutoring for high school students.
Subjects: Mathematics, Physics, Biology, Italian Language and Literature, Latin Language and Literature, History.

Institutional and administrative activities

- 2008 - 2011 **Student representative**, *Politecnico di Milano*, Milano, Italy.
Student representative in the board of the Department of Aerospace Engineering at Politecnico di Milano.

- 2008 - 2011 **Student representative**, *Politecnico di Milano*, Milano, Italy.
Student representative in the board of the School of Industrial Engineering at Politecnico di Milano.
- [Craftwork experience](#)
- 2007 - 2009 **Driver**, *ADT*, Cernusco s/N, Milano, Italy.
I worked for a family-owned business of road transports as a driver.
- 2005 - 2007 **Worker**, *Delta I Srl.*, Cernusco s/N, Milano, Italy.
I worked for a family-owned business of electro-mechanical systems, where I learnt to use a series of different machines.
- [Voluntary work](#)
- 2008 - 2011 **Sound Technician**, *CLU (Catholic association)*, Milano, Italy.
As part of a non-for-profit catholic association, I worked on a voluntary basis as sound technician in the preparation of meetings and events.
- 2008 - 2011 **Secretary**, *CLU (Catholic association)*, Milano, Italy.
As part of a non-for-profit catholic association, I worked on a voluntary basis as secretary helping in ordinary administration, accounting, event planning and management.
- 2005 - 2007 **Catechist**, *Madonna del Divin Pianto parish*, Cernusco s/N, Milano, Italy.
I worked on a voluntary basis as a teacher of principles of Christian faith for middle-school age kids.

Professional affiliations

- Since 2014 *Ordine degli Ingegneri di Milano*
- Since 2014 *American Society of Mechanical Engineers (ASME)*
- Since 2013 *Society of Industrial and Applied Mathematics (SIAM)*
- Since 2014 *Institute of Electrical and Electronics Engineers (IEEE)*
- Since 2014 *Swiss Physical Society (SPS)*

Honors and awards

- 2015 - *Erasmus Mundus fellowship provided by the European Commission*, to participate Present in the DocMASE Doctoral Programme.
- Feb. 2015 *BCC (Banca di Credito Cooperativo) di Cernusco s/N*, award for excellence in graduate studies.
- Oct. 2013 *PEGASUS award*, for special achievements in European cooperation.
- 2012 - 2013 *Erasmus program*, stipend award for research period at IMDEA Materials.
- 2011 - 2012 *EU-Atlantis grant provided by US Department of Education and European Commission*, full tuition and stipend award for graduate studies at Drexel University.
- March 2012 *BCC (Banca di Credito Cooperativo) di Cernusco s/N*, award for excellence in undergraduate studies.
- 2007 - 2010 *Politecnico di Milano*, partial tuition coverage for undergraduate studies.
- March 2008 *BCC (Banca di Credito Cooperativo) di Cernusco s/N*, award for excellence in high school studies.
- Sept. 2007 *Italian Government*, award for excellence in high school studies.

Education and courses

Higher education

- Nov. 2013 **Italian Professional Engineer License in Industrial Engineering.**
Politecnico di Milano - Milano, Italy
- 2010 - 2013 **Double M.Sc. degree project EAGLES (*Engineers as Global Leaders for Energy Sustainability*).**
Politecnico di Milano - Drexel University - Universidad Politécnica de Madrid
Milano, Italy - Philadelphia, USA - Madrid, Spain
- Oct. 2013 **Master of Science in Space Engineering, 110/110.**
Politecnico di Milano - Milano, Italy
Master's Thesis: Experimental, Analytical and Numerical Investigation of Loading Rate Effects on Mode I, Mode II and Mixed Mode I-II Delamination in Advanced CFRP.
- Jun. 2012 **Master of Science in Mechanical Engineering, 4/4.**
Drexel University - Philadelphia, USA
- 2007 - 2010 **Bachelor of Science in Aerospace Engineering, 110/110.**
Politecnico di Milano - Milano, Italy
- 2002 - 2007 **Scientific High School Diploma, 100/100 cum Laude.**
Scientific High School Istituto Sacro Cuore - Milano, Italy
- 1997 - 2007 **Cello Studies.**
Scuola Civica di Musica (Civic School of Music) - Cernusco s/N, Milano, Italy

Courses and seminars

- July 2015 **2015 Summer School on Effective High Performance Computing.**
Held by *Swiss National Supercomputing Centre and Università della Svizzera Italiana*
Hosted by Hotel Serpiano, Ticino, Switzerland
The school was focused on the effective exploitation of High Performance Computing (HPC) systems and featured lessons alongside hands-on training. Main topics were MPI, OpenMP, CUDA, OpenACC, parallel I/O, scientific libraries usage, data visualization and optimisation techniques.
- Mar. - Jun. **History, Present and Future of the European Union (School of European Citizenship).**
2013 Held by *CEPADE - Universidad Politécnica de Madrid*, Madrid, Spain
To mark the *2013 European Year of Citizens*, the course offered a deep insight into the history and political development, the current institutional framework and future perspectives of the European Union.

- July 2012 **2012 Wolfram Science Summer School.**
 Held by *Wolfram Research*
 Hosted by Curry College, Milton, MA, USA
 Learning activities were focused on the acquisition of a deep knowledge of Mathematica software and programming language.
Project: Modeling Complex Patterns of Crack Propagation: Branching and Merging Mechanisms.
- August 2011 **Shanghai Summer School.**
 Held by *China Engineering Education Excellence Alliance*
 Hosted by Tongji University, Shanghai, China – Northwestern Polytechnical University, Xián, China – Chongqing University, Chongqing, China
 Main topics covered were urban development, international communication, sustainable development of urban and rural areas, Chinese language and culture.
- March 2010 **ATHENS Programme (Advanced Technology Higher Education Network/Socrates).**
 Held and hosted by *Delft University of Technology*, Delft, Netherlands
 Participation to the intensive course *Introduction into Finite Elements*, on foundations and introductory programming of FEM.
- [Vocational training](#)
- Jul. - Dec. **Professional training course on manufacturing technologies.**
 2009 Held and hosted by *Centro di Formazione Professionale Salesiano Don Bosco*, Milano, Italy
 Lectures and practical training on milling, turning, welding, programming and use of CNC machines.

Computer skills

Operative systems: Windows, Linux, Mac OS.
Programming languages: C, C++, Python, Perl, Fortran, HTML, bash.
High Performance Computing: OpenMP, MPI, CUDA, OpenACC.
Scientific computing: Matlab, Mathematica, Stata, Octave, Maple.
Physical modeling and simulation: Abaqus, Comsol Multiphysics, Thermal Desktop.
Data visualization: ParaView, VisIt.
CAD/CAM software: Autocad, Solid Edge, G-M-T-S-F codes.
Document preparation: LaTeX, JabRef, EndNote.
General purpose softwares: Office package (Word, Excel, Powerpoint) and equivalents, Internet browsers (Google Chrome, Firefox, Internet Explorer), PDF creation and modification, image processing.

Language skills

Italian **Mother tongue**

English **Proficient**

IELTS Certificate, 8.5/9.0, CEF Level C2, May 2012.

TOEIC Certificate, 945/990, CEF Level C1, Sep. 2010.

FCE of Cambridge University, B, CEF Level B2, 2006.

Excellent reading and listening skills, excellent abilities in written and oral communication.

Spanish **Upper intermediate**

Very good reading and listening skills, good abilities in written and oral communications.

German **Lower intermediate**

Fit in Deutsch 1 - Goethe Institut, *Sehr gut* - 53.50/60, CEF Level A1, 2002.

Average reading and listening skills, basic abilities in written and oral communication.

Russian **Elementary**

Average reading skills, average abilities in written and oral communication.

From October 2010 to May 2011 I attended a course of Russian held by Associazione Italia-Russia - Milano, Italy, officially recognized by the Russian embassy.

Chinese **Beginner**

In August 2011, I studied the basics of Chinese language during the Shanghai Summer School.

Personal interests

I am currently learning to play guitar in my spare time. I am interested in politics and finance. I love reading, especially classics; listen to both classical and contemporary music; I am fond of theatre and movies. I am deeply interested in painting and sculpture, and generally in arts. I love sports, I often play soccer and regularly enjoy physical activities.

I am regularly involved in voluntary work. In Philadelphia, I took part in the activities of Philabundance, devoted to the collection of food for people in need. While in Madrid, I joined charitable works for homeless people. In Zürich, I participated in gratuitous activities of child-caring.