



# Luca Di Stasio

## Curriculum Vitae

### Work contact information

*Address (SE)* Polymera kompositmaterial, Avdelningen för materialvetenskap  
Institutionen för teknikvetenskap och matematik, Luleå tekniska universitet  
E 273, E Huset, Campus Luleå, 97187 Luleå - Sweden

*Address (FR)* Ecole Européenne d'Ingénieurs en Génie des Matériaux (EEIGM)  
Université de Lorraine  
6 Rue Bastien-Lepage, CS 10630, F-54010, Nancy - France

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### Personal contact information

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*Webpage* My website

### Other personal information

*Nationality* Italian

*Place of birth* Cernusco s/N, Milano, Italy

*Date of birth* April 19<sup>th</sup>, 1988

*Marital status* Engaged

*Driving licenses* Italian driving license, cat. B

## Work experience

### Research activities and interests

**From Oct. 2015** **Early stage researcher**, *Université de Lorraine*, Nancy, France.  
*Mechanics of Materials Group, Department of Metallurgical and Materials Science and Engineering (SI2M), IJL, EEIGM, Université de Lorraine*

*Description*

*Achievements*

*Projects* Mechanics of extreme thin composite layers for aerospace applications.

*Working languages* French, English.

**2013 - 2015** **Early stage researcher**, *ETH Zürich*, Zürich, Switzerland.  
*Computational Physics for Engineering Materials Group, Institute for Building Materials, Department of Civil, Environmental and Geomatic Engineering, ETH Zürich*

*Description*

*Achievements*

*Projects* Fluid-structure interaction on deformable surfaces; Multi-scale modeling of wood.

*Working languages* German, English.

**2012 - 2013** **Research assistant**, *IMDEA Materials Institute*, Getafe, Madrid, Spain.  
*Structural Composites Group, IMDEA Materials Institute*

*Description*

*Achievements*

*Projects* Loading rate effects on interlaminar fracture toughness in advanced CFRP.

*Working languages* Spanish, English.

**Jan. - Jun. 2012** **Research assistant**, *Drexel University*, Philadelphia, USA.  
*Mesoscale Materials Laboratory, Department of Materials Science & Engineering, Institute for Energy & the Environment, Drexel University*

*Description*

*Achievements*

*Projects* Design of nano-resonators for environmental electromagnetic field detection.

*Working languages* English.

**Jan. - Jun. 2012** **Research assistant**, *Drexel University*, Philadelphia, USA.  
*BioMechanics Laboratory, Department of Mechanical Engineering & Mechanics, Drexel University*

*Description*

*Achievements*

*Projects* Talus morphology and its relationship to the kinematics of the ankle joint.

*Working languages* English.

## Teaching activities and interests

**2016 - 2017** **Teaching Assistant**, *Université de Lorraine*, Nancy, France.

*Ecole Européenne d'Ingénieurs en Génie des Matériaux (EEIGM), Université de Lorraine*

*Description*

*Achievements*

*Subjects* Mechanics of materials, Elasticity, Rheological models, Fracture mechanics, Experimental methods, Mechanics of Composite Materials, Finite Element Method.

*Working languages* French.

**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.

*Description*

*Achievements*

*Subjects* Mathematics, Physics, Statistics, Econometrics, Java programming.

*Working languages* German, English.

**Mar. - Jul. 2011** **Tutor**, *Politecnico di Milano*, Milano, Italy.

I worked as tutor of an undergraduate student with disabilities.

*Description*

*Achievements*

*Subjects* Calculus.

*Working languages* Italian.

**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.

*Description*

*Achievements*

*Subjects* Mathematics, Physics, Biology, Italian Language and Literature, Latin Language and Literature, History.

*Working languages* Italian.

## 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.

*Working language*: Italian.

**2008 - 2011** **Student representative**, *Politecnico di Milano*, Milano, Italy.

Student representative in the board of the School of Industrial Engineering at Politecnico di Milano.

*Working language*: Italian.

## Craftwork experience

**2007 - 2009** **Driver**, *ADT*, Cernusco s/N, Milano, Italy.

I worked for a family-owned business of road transports as a driver.

*Working language*: Italian.

**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.

*Working language:* Italian.

### 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.

*Working language:* Italian.

**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.

*Working language:* Italian.

**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.

*Working language:* Italian.

## Education and courses

### Higher education

- Nov. 2013 **Italian Professional Engineer License in Industrial Engineering.**  
*Politecnico di Milano - Milano, Italy*  
*Working language: Italian.*
- 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*  
*Working language: Italian, English, Spanish.*
- 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.*  
*Working language: Italian, English, Spanish.*
- Jun. 2012 **Master of Science in Mechanical Engineering, 4/4.**  
*Drexel University - Philadelphia, USA*  
*Working language: English.*
- 2007 - 2010 **Bachelor of Science in Aerospace Engineering, 110/110.**  
*Politecnico di Milano - Milano, Italy*  
*Working language: Italian.*
- 2002 - 2007 **Scientific High School Diploma, 100/100 cum Laude.**  
*Scientific High School Istituto Sacro Cuore - Milano, Italy*  
*Working language: Italian.*
- 1997 - 2007 **Cello Studies.**  
*Scuola Civica di Musica (Civic School of Music) - Cernusco s/N, Milano, Italy*  
*Working language: Italian.*

### Courses and seminars

- Sep. - Nov. 2016 **Project Management MOOC - Classic Course.**  
Held by *Centrale Lille* and *Unow*  
Online MOOC and Certificate of Completion  
The course provided the foundations for effective project creation and management, meeting animation, team building and leadership.  
*Working language: French.*

- May 2016 **Civil Defence Skills for Citizens.**  
 Held by *Académie de Nancy-Metz*  
 Verified Certificate of Completion  
 The course focused on first-aid and emergency response techniques for non-specialists.  
*Working language:* French.
- Nov. - Dec. 2015 **Corporate Social Responsibility (CSR) and Value Creation.**  
 Held by *Audencia Nantes Business School*  
 Online MOOC and Verified Certificate  
 After an introductory definition of Corporate Social Responsibility (CSR), the course dived deep into its relationship with value creation for business. Challenges and opportunities for effective implementations of CSR strategies in business management were presented and discussed.  
*Working language:* English.
- 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.  
*Working language:* English.
- May 2015 **Real Estate Property Evaluation and Role of the Expert Appraiser.**  
 Held by *Altalex Formazione*, Milano, Italy  
 Recognized by *Ordine degli Ingegneri di Milano*  
 The focus of the seminar was on real estate property evaluation procedures and the role of the expert in the appraisal activity.  
*Working language:* Italian.
- Mar. - Jun. 2013 **History, Present and Future of the European Union (School of European Citizenship).**  
 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.  
*Working language:* Spanish.

- 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.  
*Working language:* English.
- August 2011 **Shanghai Summer School.**  
 Held by *China Engineering Education Excellence Alliance*  
 Hosted by Tongji University, Shanghai, China – Northwestern Polytechnical University, Xi'an, China – Chongqing University, Chongqing, China  
 Main topics covered were urban development, international communication, sustainable development of urban and rural areas, Chinese language and culture.  
*Working language:* English, Chinese.
- 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.  
*Working language:* English.  
[Vocational training](#)
- Jul. - Dec. **CNC Technician.**  
 2009 Held and hosted by *Centro di Formazione Professionale Salesiano Don Bosco*, Milano, Italy  
 In-Class Course and Competence Certificate  
 Lectures and practical training on milling, turning, welding, programming and use of CNC machines.  
*Working language:* Italian.

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## Honors and awards

- 2015 - Present *Erasmus Mundus fellowship provided by the European Commission*, to participate 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-US Atlantis Programme fellowship 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.

## Professional affiliations

- Since 2014 *Ordine degli Ingegneri di Milano*
- Since 2013 *Society of Industrial and Applied Mathematics (SIAM)*

## Computer skills

*Operative systems:* Windows, Linux, Mac OS.

*Programming languages:* C, C++, Python, Perl, Java, 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 communication.

French Upper intermediate

Very good reading skills, good abilities in written and oral communication.

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.

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## 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.

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## To know more about me

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