



# Luca Di Stasio

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## *Curriculum Vitae*

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### Informaci3n de contacto de trabajo

*Address* Ecole Européenne d'Ingénieurs en Génie des Matériaux (EEIGM)  
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### Informaci3n de contacto personal

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### Otra informaci3n personal

*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

## Experiencia de trabajo

### Intereses y actividades de investigación

- Oct. 2015 - Present **Predoctoral research fellow**, *Université de Lorraine*, Nancy, France.  
*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.  
*Working language:* French, English.
- 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.  
*Working language:* German, English.
- 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.  
*Working language:* 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*  
*Project:* Design of nano-resonators for environmental electromagnetic field detection.  
*Working language:* English.
- Jan. - Jun. 2012 **Research assistant**, *Drexel University*, Philadelphia, USA.  
*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.  
*Working language:* English.

### Intereses y actividades de enseñanza

- 2014 - 2015 **Tutor**, *The Learning Center Zürich*, Zürich, Switzerland.  
I worked as a teacher of extracurricular activities of tutoría para estudiantes secundarios y universitarios.  
*Subjects:* Mathematics, Physics, Statistics, Econometrics, Java programming.  
*Working language:* German, English.
- Mar. - Jul. 2011 **Tutor**, *Politecnico di Milano*, Milano, Italy.  
I worked as tutor of an undergraduate student with disabilities.  
*Subjects:* Calculus.  
*Working language:* Italian.

- 2009 - 2011 **Tutor**, *Scientific High School Istituto Sacro Cuore*, Milano, Italy.  
I worked as a teacher of extracurricular activities of tutor for students of secondary school.  
*Subjects*: Mathematics, Physics, Biology, Italian Language and Literature, Latin Language and Literature, History.  
*Working language*: Italian.
- [Actividades institucionales y administrativas](#)
- 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.
- [Experiencia de trabajos manuales](#)
- 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.
- [Trabajo voluntario](#)
- 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.

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## Cursos de educaci3n y

### Educaci3n superior

- 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 Polit3cnica de Madrid*  
*Milano, Italia - Filadelfia, Estados Unidos - Madrid, Espa3a*  
*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.*

### Cursos y seminarios

- Sep. - Nov. **Project Management MOOC - Classic Course.**  
2016 Held by *Centrale Lille* and *Unow*  
MOOC en I3nnea y el certificado de finalizaci3n  
El curso proporciona las bases para creaci3n de proyectos eficaz y gesti3n, liderazgo, trabajo en equipo y animaci3n de reuniones.  
*Working language: French.*
- May 2016 **Civil Defence Skills for Citizens.**  
Held by *Acad3mie de Nancy-Metz*  
Verificaci3n certificado de finalizaci3n

El curso se centrará en técnicas de primeros auxilios y de emergencia de respuesta para los no especialistas.

*Working language:* French.

Nov. - Dec. **Corporate Social Responsibility (CSR) and Value Creation.**

2015 Held by *Audencia Nantes Business School*

MOOC online y certificado verificado

Después de una introducción definición de Responsabilidad Social Corporativa (RSC), el curso se zambullirá en su relación con la creación de valor para el negocio. Retos y oportunidades para la implementación efectiva de estrategias de RSE en la gestión empresarial se presentan y discuten.

*Working language:* English.

July 2015 **2015 Summer School on Effective High Performance Computing.**

Held by *Swiss National Supercomputing Centre and Università della Svizzera Italiana*

Organizado por Hotel Serpiano, Ticino, Suiza

La escuela se centrará en la explotación efectiva de los sistemas de computación de alto rendimiento (HPC) y ofrece lecciones junto con entrenamiento práctico. Principales temas fueron MPI, OpenMP, CUDA, OpenACC, I/O paralela, uso de bibliotecas científicas, técnicas de visualización y optimización de datos.

*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*

El objetivo del seminario era sobre procedimientos de evaluación de la propiedad de bienes raíces y el papel del experto en la actividad de evaluación.

*Working language:* Italian.

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.

*Working language:* Spanish.

July 2012 **2012 Wolfram Science Summer School.**

Held by *Wolfram Research*

Organizado por Universidad de Curry, Milton, MA, USA

Actividades de aprendizaje se centran en la adquisición de un conocimiento profundo del software Mathematica y lenguaje de programación.

*Project:* Modeling Complex Patterns of Crack Propagation: Branching and Merging Mechanisms.

- Working language:* English.
- August 2011 **Shanghai Summer School.**  
 Held by *China Engineering Alianza de excelencia de educaci3n*  
 Organizado por la Universidad de Tongji, Shanghai, China–noroeeste Universidad Polit3cnica, Xi ' an, China–Universidad de Chongqing, Chongqing, China  
 Principales temas tratados fueron desarrollo urbano, comunicaci3n internacional, el desarrollo sostenible de zonas urbanas y rurales, el idioma chino y la cultura.  
*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.
- [Formaci3n profesional](#)
- Jul. - Dec. **CNC Technician.**  
 2009 Held and hosted by *Centro di Formazione Professionale Salesiano Don Bosco*, Milano, Italy  
 Curso y certificado de competencia en su clase  
 Conferencias y formaci3n pr3ctica en fresado, torneado, soldadura, programaci3n y uso de m3quinas CNC.  
*Working language:* Italian.

## Reconocimientos y premios

- 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.

## Afiliaciones profesionales

Since 2014 *Ordine degli Ingegneri di Milano*

Since 2013 *Society of Industrial and Applied Mathematics (SIAM)*

## Conocimientos de informática

*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.

## Habilidades de lenguaje

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.

Excelente lectura y habilidades para escuchar, excelentes habilidades en comunicación oral y escrita.

Spanish Upper intermediate

Muy buena lectura y escucha, buenas habilidades en comunicación oral y escrita.

German Lower intermediate

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

Promedio de lectura y escuchar habilidades, habilidades básicas de comunicación oral y escrita.

French Lower intermediate

Promedio de habilidades de lectura, habilidades básicas de comunicación oral y escrita.

Russian Elementary

Promedio de habilidades de lectura, media habilidades en comunicación oral y escrita.

De octubre de 2010 a mayo de 2011 asistí a un curso de ruso llevado a cabo por Associazione Italia-Rusia - Milano, Italia, reconocido oficialmente por la Embajada rusa.

Chinese Beginner

En agosto de 2011, estudié lo básico del idioma chino en la escuela de verano de Shanghai.

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## Intereses personales

Actualmente estoy aprendiendo a tocar la guitarra en mi tiempo libre. Estoy interesado en la política y las finanzas. Me encanta leer, especialmente clásicos; escuchar música clásica y contemporánea; Soy aficionado de teatro y películas. Estoy profundamente interesado en pintura y escultura y en general en las artes. Encantan los deportes, a menudo juega a fútbol y disfrutar regularmente de las actividades físicas.

Participo regularmente en trabajo voluntario. En Filadelfia, tomé parte en las actividades de Philabundance, dedicado a la recogida de alimentos para personas necesitadas. Mientras que en Madrid, me uní a obras de caridad para personas sin hogar. En Zurich, participé en las actividades gratuitas del cuidado de niños.

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## Para saber más acerca de mí

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