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| **Luca Di Stasio** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Postdoctoral Researcher** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discovery Boulevard, G-3900, KAUST, Thuwal, Saudi Arabia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **D-CPR Certified** | | | | | **Driving License B (IT)** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **(+966) 53 419 70 84** | | | | |  | | | | | | | | | | | | | | | | | | | **luca.distasio@gmail.com** | | | | | | |
| **Profile** | | | | | Scientific researcher and software simulation engineer, I’m a creative problem-solver and challenge-driven. Advocate of good coding practices in research to enhance repeatability and openness, I am a founder and active promoter of the Italian Carpentries community. | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Employment History** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Kaust** | | | | | | | | | | | | | | | | | | | | | | | | Thuwal, Saudi Arabia | | | | | | |
| Apr 2020 - Present | | | | | **Postdoctoral Researcher** *(with Prof. Brian Moran)* | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Led the development of multiple research projects from idea to publication in the field of large deformation elasticity * Developed automated software pipelines for the semi- and un-supervised generation and analysis of models * Developed routines for the visualization of multi-dimensional data * Disseminated results through the publication of journal articles * Presented results at international conferences | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Université de Lorraine** | | | | | | | | | | | | | | | | | | | | | | | | Nancy, France | | | | | | |
| Sep 2020 – Feb 2021 | | | | | **Guest Lecturer** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Established learning objectives, formulated assessment methods and designed learning activities of a Solid Mechanics course for 2nd year undergraduate students in Materials Science and Engineering delivered online * Delivered learning activities, provided extra-curricular support, and assessed the achievement of learning outcomes * Managed remotely a team of 5 teaching assistants | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Luleå University of Technology** | | | | | | | | | | | | | | | | | | | | | | | | Luleå, Sweden | | | | | | |
| Jan 2018 – Dec 2019 | | | | | **Early-stage Researcher** *(with Prof. Janis Varna)* | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Completed successfully an international research project between institutions in France, Sweden, and Germany with multiple stakeholders and overlapping requirements * Developed automated software pipelines for the semi- and un-supervised generation and analysis of models * Co-supervised master students’ research projects * Disseminated results through the publication of journal articles * Presented results at international conferences and seminars | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jan 2018 – Dec 2019 | | | | | **University Teaching Assistant** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Delivered learning activities in the field of Experimental Composite Mechanics to 1st and 2nd year international master students in Materials Science and Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Université de Lorraine** | | | | | | | | | | | | | | | | | | | | | | | | Nancy, France | | | | | | |
| Sep 2016 – Dec 2017 | | | | | **University Teaching Assistant** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Delivered learning activities in the field of Experimental Mechanics, Mechanics of Materials, and Computational Mechanics of Composite Materials to 2nd and 3rd year undergraduate and 1st year graduate students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 2015 – Dec 2017 | | | | | **Early-stage Researcher** *(with Prof. Zoubir Ayadi)* | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Kickstarted an international research project (between institutions in France, Sweden and Germany) with multiple stakeholders and overlapping requirements * Developed automated software pipelines for the semi- and un-supervised generation and analysis of models * Presented results at international conferences and seminars | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **ETH Zürich** | | | | | | | | | | | | | | | | | | | | | | | | Zürich, Switzerland | | | | | | |
| Sep 2013 – Aug 2015 | | | | | **Early-stage Researcher** *(with Prof. Hans Herrmann)* | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Participated to the development of a coupled LBM-FEM code for staggered fluid-structure interaction * Optimized the performance of an in-house code for multi-scale modeling of wood | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **IMDEA Materials Institute** | | | | | | | | | | | | | | | | | | | | | | | | Madrid, Spain | | | | | | |
| Nov 2012 – Aug 2013 | | | | | **Research Assistant** *(with Dr. Claudio Lopes)* | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | * Organized and completed successfully an international research project between institutions in Italy and Spain | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Education** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 2015 – Dec 2019 | | | | | **PhD** | | | **Polymeric Composite Materials** | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Luleå University of Technology | | | | | | | | | | | | | | | | | | | Luleå, Sweden | | | | | | |
| Sep 2015 – Dec 2019 | | | | | **PhD** | | | **Materials Science** | | | | | | | | | | | | | | | |  | | | | | | |
|  | | | | | Université de Lorraine | | | | | | | | | | | | | | | | | | | Nancy, France | | | | | | |
| Nov 2013 | | | | | **PE** | | | **Industrial Engineering** | | | | | | | | | | | | | | | |  | | | | | | |
|  | | | | | Politecnico di Milano | | | | | | | | | | | | | | | | | | | Milano, Italy | | | | | | |
| Oct 2010 – Oct 2013 | | | | | **MSc** | | | **Space Engineering** | | | | | | | | | | | | | | | | **GPA 110/110** | | | | | | |
|  | | | | | Politecnico di Milano | | | | | | | | | | | | | | | | | | | Milano, Italy | | | | | | |
| Sep 2011 – Jun 2012 | | | | | **MSc** | | | **Mechanical Engineering** | | | | | | | | | | | | | | | | **GPA 4/4** | | | | | | |
|  | | | | | Drexel University | | | | | | | | | | | | | | | | | | | Philadelphia, USA | | | | | | |
| Sep 2007 – Sep 2010 | | | | | **BSc** | | | **Aerospace Engineering** | | | | | | | | | | | | | | | | **GPA 110/110** | | | | | | |
|  | | | | | Politecnico di Milano | | | | | | | | | | | | | | | | | | | Milano, Italy | | | | | | |
| **Professional Development (Selected)** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oct – Dec 2021 | | | | | **Higher Education Teaching Certificate** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Harvard University (through HarvardX) | | | | | | | | | | | | | | | | | | | | | | | | | USA |
| Sep – Nov 2020 | | | | | **Carpentries Trainer Training** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | The Carpentries | | | | | | | | | | | | | | | | | | USA | | | | | | | |
| Jun – Jul 2020 | | | | | **Carpentries Maintainer Training** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | The Carpentries | | | | | | | | | | | | | | | | | | USA | | | | | | | |
| Sep 2018 – Jan 2019 | | | | | **Swedish Qualifying Course for University Teachers** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Luleå University of Technology | | | | | | | | | | | | | | | | | | | | | | | | | Sweden |
| May – Jul 2018 | | | | | **Fundamentals of Business Certificate** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Quantic School of Business and Technology (previously Smartly) | | | | | | | | | | | | | | | | | | | | | | | | | USA |
| Mar 2018 | | | | | **Research Funding** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Luleå University of Technology | | | | | | | | | | | | | Sweden | | | | | | | | | | | | |
| Jun – Sep 2017 | | | | | **Carpentries Instructor Training** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | The Carpentries | | | | | | | | | | | | | USA | | | | | | | | | | | | |
| Sep – Nov 2016 | | | | | **Project Management** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Ecole Centrale Lille | | | | | | | | | | | | | France | | | | | | | | | | | | |
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| **Computer Skills** | | | | | C++ | | Python | | | | Julia | | | | Fortran | | R | Matlab | | | | | Mathematica | | | | | Maple | | |
| Windows Batch | | | | Unix Shell | | Abaqus | | | Ansys | | | | | Comsol | | | FEniCs | | | OpenFOAM | | | | | | | Thermal Desktop | | | |
| SQL | | Git | | Javascript | | HTML | | | CSS | | | | VBA | | | Excel | | OpenMP | | | | MPI | | | CUDA | | | | OpenACC | |
|  | |  | |  | |  | | |  | | | |  | | |  | |  | | | |  | | |  | | | |  | |
| **Languages** | | | | | **Italian** | | | | | Native speaker | | | | | | | | | **English** | | | | | | | Highly proficient | | | | |
|  | | | | | **French** | | | | | Highly proficient | | | | | | | | | **Spanish** | | | | | | | Highly proficient | | | | |
|  | | | | | **German** | | | | | Working knowledge | | | | | | | | | **Swedish** | | | | | | | Working knowledge | | | | |
| **Projects** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Current | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * Formulation of cohesive zone models and cohesive elements for large deformations at the crack tip of Neo-Hookean thin sheets under conditions of plane stress   *In collaboration with:* Prof. Brian Moran, Dr. Yin Liu   * Neo-Hookean sphere impacting on a water droplet at rest on rigid/deformable, hydrophobic/hydrophilic surfaces: modeling the mechanics of solid and fluid phases and their interaction   *In collaboration with:* Prof. Brian Moran, Prof. Tadd Truscott   * Design of soft polymer balls with internal structure for asymmetric impact trajectories   *In collaboration with:* Prof. Brian Moran   * Asymptotic characterization of the elastic fields along the front of a crack in a 3D Neo-Hookean body under large deformations   *In collaboration with:* Prof. Brian Moran | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Completed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * Micromechanics of damage in thin- and ultra thin-plies of glass- and carbon-fiber reinforced polymer composites for aerospace applications   *In collaboration with:* Prof. Janis Varna, Prof. Zoubir Ayadi   * Characterization of the fiber-matrix debonding process from the analysis of post-mortem optical micrographs   *In collaboration with:* Mr. Florian Feyne, Prof. Janis Varna   * Experimental and numerical analysis of the effect of temperature and curing history on the viscoelastic behavior of epoxy resin   *In collaboration with:* Mr. Pietro Cuccarollo, Dr. Liva Pupure, Prof. Janis Varna, Prof. Marino Quaresimin   * Effect of aging on transverse cracking in glass fiber reinforced polymer composites   *In collaboration with:* Prof. Janis Varna   * Effect of temperature and loading rate on transverse cracking in glass fiber reinforced polymer composites   *In collaboration with:* Prof. Janis Varna   * Coupling a boundary-conforming Lattice Boltzmann Method (LBM) with a subdivision-based Finite Element Method (FEM) for linear elastic thin shells through advanced mesh generation and finite differentiation   *In collaboration with:* Dr. Miller Mendoza, Dr. Falk Wittel, Prof. Hans Herrmann   * Performance optimization of a Matlab-based code for multiscale modeling of wood   *In collaboration with:* Dr. Falk Wittel   * Effect of loading rate on interlaminar fracture toughness in advanced carbon fiber reinforced polymer composites   *In collaboration with:* Dr. Claudio Lopes   * Automated crack detection and extraction of fracture parameters from video recordings of interlaminar fracture toughness tests (DCB, ENF, MMB)   *In collaboration with:* Dr. Claudio Lopes   * Modeling complex patterns of crack propagation: branching and merging mechanisms   *In collaboration with:* Dr. Carlo Barbieri, Dr. Stephen Wolfram   * Design of a coupled piezoelectric-magnetostrictive nano-resonator for the detection of environmental electromagnetic fields   *In collaboration with:* Dr. Stephanie Johnson, Prof. Jonathan Spanier   * Talus morphology and its relationship to the kinematics of the ankle joint   *In collaboration with:* Prof. Sorin Siegler | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Publications** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peer-reviewed Journal Publications | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Di Stasio, L., & Moran, B. (2022). Simplicity on the other side of complexity: asymptotic linearity and superposition at the tip of a Griffith crack in thin neo-Hookean sheets under large deformations. *In preparation.* 2. Di Stasio, L., & Moran, B. (2022). Large deformations at the tip of a Barenblatt-Dugdale cohesive crack in thin neo-Hookean sheets. *In preparation.* 3. Di Stasio, L., & Moran, B. (2022). Asymptotic and non-asymptotic solutions for cracks in thin neo-Hookean sheets with crack faces loaded by dead and live stress. *In preparation.* 4. Di Stasio, L., & Moran, B. (2022). The Cauchy tetrahedron argument in Riemannian geometry and the definition of stress boundary conditions with dead and live loads in finite elasticity. *In preparation.* 5. Di Stasio, L., & Moran, B. (2022). Arithmetic progression of sines and cosines and the emergence of symmetry in the elastic behavior of hydrogels. *In preparation.* 6. Di Stasio, L., Liu, Y., & Moran, B. (2021). Large deformation near a crack tip in a fiber-reinforced neo-Hookean sheet with discrete and continuous distributions of fiber orientations. *Theoretical and Applied Fracture Mechanics, 114,* 103020.   https://dx.doi.org/10.1016/j.tafmec.2021.103020   1. Di Stasio, L., Varna, J., & Ayadi, Z. (2021). Growth of interface cracks on consecutive fibers: On the same or on the opposite sides? *Materials Today: Proceedings, 34(1),* 360-365.   https://dx.doi.org/10.1016/j.matpr.2020.06.410   1. Di Stasio, L., Varna, J., & Ayadi, Z. (2020). Effect of the proximity to the 0°/90° interface on Energy Release Rate of fiber/matrix interface crack growth in the 90°-ply of a cross-ply laminate under tensile loading. *Journal of Composite Materials, 54(21),* 3021-3034.   https://dx.doi.org/10.1177/0021998320912810   1. Di Stasio, L., & Ayadi, Z. (2019). Finite Element solution of the fiber/matrix interface crack problem: Convergence properties and mode mixity of the Virtual Crack Closure Technique. *Finite Elements in Analysis and Design, 167,* 103332.   https://dx.doi.org/10.1016/j.finel.2019.103]332   1. Di Stasio, L., Varna, J., & Ayadi, Z. (2019). Energy release rate of the fiber/matrix interface crack in UD composites under transverse loading: Effect of the fiber volume fraction and of the distance to the free surface and to non-adjacent debonds. *Theoretical and Applied Fracture Mechanics, 103,* 102251.   https://dx.doi.org/10.1016/j.tafmec.2019.102251 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Conference Proceedings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Di Stasio, L., Varna, J., & Ayadi, Z. (2019). Estimating the average size of fiber/matrix interface cracks in UD and cross-ply laminates. In Turon, A., Maimì, P., & Fagerström, M. (Eds.), *Proceedings of the 7th ECCOMAS Thematic Conference on the Mechanical Response of Composites (Composites 2019), Girona, Spain, September 18-20, 2019* (pp. 57-68).   Retrieved from https://documentations.wiki/R9NAz/proceeding-composites-2019-v4-pdf.html   1. Di Stasio, L., Varna, J., & Ayadi, Z. (2018). Effect of boundary conditions on microdamage initiation in thin ply composite laminates. In *Proceedings of the 18th European Conference on Composite Materials (ECCM18), Athens, Greece, June 24-28, 2018.*   Retrieved from https://az659834.vo.msecnd.net/eventsairwesteuprod/production-pcoconvin-public/f02831a803b64483b250b93c1536cb00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Theses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Di Stasio, L. (2019). *Influence of microstructure on debonding at the fiber/matrix interface in fiber-reinforced polymers under tensile loading* [Doctoral dissertation, Luleå University of Technology and Université de Lorraine].   Digitala Vetenskapliga Arkivet (DiVA). http://urn.kb.se/resolve?urn=urn:nbn:se:ltu:diva-76646 Université de Lorraine thesis repository. http://docnum.univ-lorraine.fr/public/DDOC\_T\_2019\_0229\_DI\_STASIO.pdf   1. Di Stasio, L. (2013). *Experimental, analytical and numerical investigation of loading rate effects on mode I, mode II and mixed-mode I-II delamination in advanced CFRP* [Master’s thesis, Politecnico di Milano].   Digital archive of PhD and post graduate theses (POLITesi). http://hdl.handle.net/10589/82983 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Conference Contributions and Seminars** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Di Stasio, L., & Moran, B. (2022, July 7). *A Dugdale-Barenblatt model for cracks in thin neo-Hookean sheets* [Conference session, oral presentation]. 11th European Solid Mechanics Conference (ESMC 2022), Galway, Ireland. 2. Di Stasio, L. (2020, July 27). *Native scripting in Windows: the Command Prompt interface* [Conference session, oral presentation]. CarpentryCon @ Home 2020 – Growing Inclusive, Computational Communities and Leaders, online. https://youtu.be/hRYBGsCxfDY 3. Di Stasio, L., Varna, J., & Ayadi, Z. (2019, November 6). *Towards tough self-healing thin-ply laminates – Insights from computational micromechanical modeling and high-temperature experimental investigation of onset and propagation of transverse cracking* [Seminar, oral presentation]. LTU Composites Seminars Series, Luleå, Sweden. 4. Di Stasio, L., (2019, October 16). *Towards tough self-healing thin-ply laminates – Insights from computational micromechanical modeling and high-temperature experimental investigation of onset and propagation of transverse cracking* [Seminar, oral presentation]. Invited seminar at KTH, Department of Fiber and Polymer Technology, Stockholm, Sweden. 5. Di Stasio, L., Varna, J., & Ayadi, Z. (2019, September 26). *Effect of microstructure on fiber/matrix interface crack growth in UD and cross-ply laminates under tensile loading* [Seminar, oral presentation]. Invited seminar at Universidad de Sevilla, ETSI, Elasticity and Strength of Materials Group, Sevilla, Spain. 6. Di Stasio, L., Varna, J., & Ayadi, Z. (2019, September 18). *Estimating the average size of fiber/matrix interface cracks in UD and cross-ply laminates* [Conference session, oral presentation]. 7th ECCOMAS Thematic Conference on the Mechanical Response of Composites (Composites 2019), Girona, Spain. 7. Di Stasio, L., (2019, September 17). *Ply-thickness and ply-block effect on fiber/matrix interface crack growth in cross-ply laminates under tensile loading* [Seminar, oral presentation]. Invited seminar at IMDEA Materials Institute, Madrid, Spain. 8. Di Stasio, L., Varna, J., & Ayadi, Z. (2019, May 29). *Ply-thickness effect on fiber-matrix interface crack growth* [Conference session, oral presentation]. 9th International Conference on Composite Testing and Model Identification (CompTest2019), Luleå, Sweden. 9. Di Stasio, L., Varna, J., & Ayadi, Z. (2019, May 8). *Growth of interface cracks on consecutive fibers: on the same or on opposite sides?* [Conference session, oral presentation]. 12th International Conference on Composite Science and Technology (ICCST/12), Sorrento, Italy. 10. Di Stasio, L., Varna, J., & Ayadi, Z. (2019, April 26). *Investigation of scaling laws of the fiber/matrix interface crack in polymer composites through Finite Element-based micromechanical modeling* [Conference session, oral presentation]. 10th EEIGM International Conference on Advanced Materials Research, Moscow, Russia. 11. Di Stasio, L., Varna, J., & Ayadi, Z. (2018, June 26). *Effect of Boundary Conditions on Microdamage Initiation in Thin Ply Composite Laminates* [Conference session, oral presentation]. 18th European Conference on Composite Materials (ECCM18), Athens, Greece. 12. Di Stasio, L., Varna, J., & Ayadi, Z. (2017, September 12). *Finite Elements Solution of the Fiber-Matrix Interface Crack: Effects of Mesh Refinement and Domain Size* [Seminar, oral presentation]. DocMASE Summer School 2017, Saarbrücken, Germany. 13. Di Stasio, L., Varna, J., & Ayadi, Z. (2017, July 5). *Micromechanical models of transverse cracking in ultra-thin Fiber-Reinforced Composite laminates* [Seminar, oral presentation]. Journée de l’équipe 304 de l’Institut Jean Lamour, Nancy, France. 14. Di Stasio, L., Varna, J., & Ayadi, Z. (2017, April 6). *Micromechanical modeling of thin ply effects on microdamage in Fiber-Reinforced Composite laminates* [Conference session, oral presentation]. International Materials Research Meeting in the Greater Region. 15. Di Stasio, L., Varna, J., & Ayadi, Z. (2016, May 30). *RVE-based Micromechanical Analysis of Fiber-Matrix Debonding in Thin Ply FRPC Laminates* [Seminar, oral presentation]. DocMASE Summer School 2016, Luleå, Sweden. 16. Di Stasio, L. (2012, July 12). *Modeling complex patterns of crack propagation: branching and merging mechanisms* [Seminar, oral presentation]. Wolfram Summer School 2012, Milton, MA, USA. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Teaching** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Courses | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sep 2020 – Feb 2021 | | | | | Solid Mechanics (in French) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | EEIGM, Université de Lorraine | | | | | | | | | | | | | Nancy, France | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Luca Di Stasio | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Thomas Villemin, Zoubir Ayadi, Jean-Philippe Tinnes, Marc Ponçot, Stéphane Andre | | | | | | | | | | | | | | | | | | |
| 2018 - 2019 | | | | | Composite Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Autum and Spring Term | | | | | Luleå University of Technology | | | | | | | | | | | | Luleå, Sweden | | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Liva Pupure, Janis Varna | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Luca Di Stasio, Hiba Ben Kahla, Nawres Al-Ramahi | | | | | | | | | | | | | | | | | | |
| 2018 - 2019 | | | | | Aerospace Materials | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spring Term | | | | | Luleå University of Technology | | | | | | | | | | | | Luleå, Sweden | | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Janis Varna | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Luca Di Stasio, Hiba Ben Kahla, Nawres Al-Ramahi | | | | | | | | | | | | | | | | | | |
| 2018 - 2019 | | | | | Composites: Design and Numerical Methods | | | | | | | | | | | | | | | | | | | | | | | | | |
| Autum Term | | | | | Luleå University of Technology | | | | | | | | | | | | Luleå, Sweden | | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Andrejs Pupurs | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Luca Di Stasio | | | | | | | | | | | | | | | | | | |
| 2018 - 2019 | | | | | Mechanics of Fiber Composites | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spring Term | | | | | Luleå University of Technology | | | | | | | | | | | | Luleå, Sweden | | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Liva Pupure | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Luca Di Stasio | | | | | | | | | | | | | | | | | | |
| Sep – Dec 2017 | | | | | Composite Materials (in French) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | EEIGM, Université de Lorraine | | | | | | | | | | | | | Nancy, France | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Yves Meshaka | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Luca Di Stasio | | | | | | | | | | | | | | | | | | |
| Sep – Dec 2017 | | | | | Mechanics of Materials I (in French) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | EEIGM, Université de Lorraine | | | | | | | | | | | | | Nancy, France | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Zoubir Ayadi | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Luca Di Stasio, Franck Cleymand, Eloh Komlavi | | | | | | | | | | | | | | | | | | |
| Feb – Jun 2017 | | | | | Solid Mechanics (in French) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | EEIGM, Université de Lorraine | | | | | | | | | | | | | Nancy, France | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Yves Meshaka | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Luca Di Stasio | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | |
| Lectures and Workshops | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2022, May 19 | | | | | Introduction to Scientific Computing and Data Analysis with Numpy (in Italian) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Software Sustainability Institute | | | | | | | | | | | | | Online | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Luca Di Stasio | | | | | | | |  | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Giacomo Peru | | | | | | | |  | | | | | | | | | | |
| 2022, Jan 27-28/Feb 3-4 | | | | | Software Carpentry Workshop: introduction to Python, Shell and Git (in Italian) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Carpentries Italia and Elixir Italia | | | | | | | | | | | | | | | | | | | | | | Online | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Marco Crotti, Silvia Di Giorgio, Luca Di Stasio, Lisanna Paladin, Martino Sorbaro | | | | | | | | | | | | | | | | | | |
|  | | | | | *TA(s):* | | | | | | | Giacomo Peru, Loredana Le Pera | | | | | | | | | | | | | | | | | | |
| 2021, Sep 9-10/16-17 | | | | | Software Carpentry Workshop: introduction to Python, Shell and Git (in Italian) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Carpentries Italia and Elixir Italia | | | | | | | | | | | | | | | Online | | | | | | | | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Silvia Bonaiuto, Vincenza Colonna, Marco Crotti, Gianluca Damaggio, Luca Di Stasio, Loredana Le Pera, Mariano Mollo, Giuseppe Profiti, Martino Sorbaro, Allegra Via, Lisanna Paladin | | | | | | | | | | | | | | | | | | |
| 2021, Mar 19/26 | | | | | Software Carpentry Workshop: introduction to Python, Shell and Git (in Italian) | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Carpentries Italia | | | | | | | | | | | | | | | Online | | | | | | | | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Luca Di Stasio, Giorgia Mori, Giacomo Peru, Giuseppe Profiti, Martino Sorbaro | | | | | | | | | | | | | | | | | | |
|  | | | | | *TA(s):* | | | | | | | Fabrizio Donzelli, Annarita Marrano, Mosè Giordano, Loredana Le Pera | | | | | | | | | | | | | | | | | | |
| 2021, Mar 3-4 | | | | | The Carpentries Instructor Training Workshop | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | The Carpentries | | | | | | | Online | | | | | | | | | | | | | | | | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Luca Di Stasio, Jason Williams | | | | | | | | | | | | | | | | | | |
| 2020, Oct 21-23 | | | | | Data Carpentry Genomics Workshop | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Nord University | | | | | | | Online | | | | | | | | | | | | | | | | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Luca Di Stasio, Endre Sebestyén | | | | | | | | | | | | | | | | | | |
|  | | | | | *TA(s):* | | | | | | | Abdurhman Kelil Ali, Kari Haugset Alterskjær, Tadeu Fernando Nogueira | | | | | | | | | | | | | | | | | | |
| 2020, Oct 14-16 | | | | | Data Carpentry Ecology Workshop | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Nord University | | | | | | | Online | | | | | | | | | | | | | | | | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Luca Di Stasio, Endre Sebestyén | | | | | | | | | | | | | | | | | | |
|  | | | | | *TA(s):* | | | | | | | Abdurhman Kelil Ali, Kari Haugset Alterskjær, Tadeu Fernando Nogueira | | | | | | | | | | | | | | | | | | |
| 2020, June 22 – July 2 | | | | | Data Carpentry Ecology Workshop | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Biotech Partners | | | | | | | Online | | | | | | | | | | | | | | | | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Luca Di Stasio, Rohit Goswami, Sue McClatchy, Chandra Sarkar, Sayane Shome | | | | | | | | | | | | | | | | | | |
| 2020, January 9-10 | | | | | Software Carpentry/Library Carpentry Workshop: Introduction to Python | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | King’s College London | | | | | | | | | | | | | London, UK | | | | | | | | | | | | |
|  | | | | | *Main Instructor(s):* | | | | | | | Luca Di Stasio | | | | | | | | | | | | | | | | | | |
|  | | | | | *TA(s):* | | | | | | | Stefania Marcotti, Walter Muruez Gutierrez, Neil Jakeman, Alessia Visconti, Natasha Romanova, Fiona Wardle | | | | | | | | | | | | | | | | | | |
| 2019, November 21-22 | | | | | Software Carpentry Workshop: introduction to Python, Shell and Git | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | Universität Stuttgart | | | | | | | | | | | | | Stuttgart, Germany | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Monah Abou Alezz, Luca Di Stasio | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Dorothea Iglezakis, Ralf Diestelkämper, Michael Stegmüller, Anett Seeland, Sibylle Hermann | | | | | | | | | | | | | | | | | | |
| 2018, October 9-10 | | | | | Software Carpentry Workshop: introduction to R, Shell and Git | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | HPC2N, Umeå University | | | | | | | | | | | | | Umeå, Sweden | | | | | | | | | | | | |
| *Main Instructor(s):* | | | | | | | | | | | | Alistair Bailey, Luca Di Stasio | | | | | | | | | | | | | | | | | | |
| *TA(s):* | | | | | | | | | | | | Birgitte Briydsö, Pedro Ojeda | | | | | | | | | | | | | | | | | | |
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| **Organization of Conferences, Seminars and Workshops** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2022, Jan 27-28/Feb 3-4 | | | | | Software Carpentry Workshop: introduction to Python, Shell and Git (in Italian) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2021, Sep 9-10/16-17 | | | | | Software Carpentry Workshop: introduction to Python, Shell and Git (in Italian) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2021, Mar 19/26 | | | | | Software Carpentry Workshop: introduction to Python, Shell and Git (in Italian) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2019, May 27-29 | | | | | 9th International Conference on Composite testing and model identification (CompTest 2019) | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Scholarly Peer Review** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * Journal of Composite Materials * Journal of Open Research Software * Frattura ed Integrità Strutturale | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| **Professional Honors and 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2019 | | | **Erasmus+ Higher Education** | | | | | | | | | | | | | | | European Commission | | | | | | | | | | | | |
|  | | | Travel expenses for a one-week visit to the Elasticity and Strength of Materials Group of Prof. Federico Paris at Universidad de Sevilla (Sevilla, Spain). | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2015 – 2018 | | | **Erasmus Mundus Fellowship** | | | | | | | | | | | | | | | European Commission | | | | | | | | | | | | |
|  | | | Stipend and travel expenses for the participation to the Joint European Doctoral Program in Advanced Materials Science and Engineering (DocMASE). | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2013 | | | **PEGASUS Award** | | | | | | | | | | | | | | | PEGASUS | | | | | | | | | | | | |
|  | | | Recognition of special achievements in European cooperation through working abroad for academic research or industrial development projects from PEGASUS (European Network of Excellence in Aerospace Engineering Education). | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2012 – 2013 | | | **Erasmus Fellowship** | | | | | | | | | | | | | | | European Commission | | | | | | | | | | | | |
|  | | | Stipend and travel expenses to conduct a research project at IMDEA Materials Institute as part of the Double Master Degree EAGLES (Engineers as Global Leaders for Energy Sustainability) program. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2011 – 2012 | | | **EU-US Atlantis Program Fellowship** | | | | | | | | | | | | | | | European Commission & US DoEd | | | | | | | | | | | | |
|  | | | Full tuition, stipend and travel expenses to conduct graduate studies at Drexel University as part of the Double Master Degree EAGLES (Engineers as Global Leaders for Energy Sustainability) program. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2012 | | | **Academic Excellence Award** | | | | | | | | | | | | | | | BCC di Cernusco s/N | | | | | | | | | | | | |
|  | | | Award for excellence in undergraduate studies. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2007 – 2010 | | | **Merit-based Tuition Fees Exemption** | | | | | | | | | | | | | | | Politecnico di Milano | | | | | | | | | | | | |
|  | | | Merit-based partial exemption from tuition fees to conduct undergraduate studies. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2007 | | | **Academic Excellence Award** | | | | | | | | | | | | | | | BCC di Cernusco s/N | | | | | | | | | | | | |
|  | | | Award for excellence in high school studies. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2007 | | | **Academic Excellence Award** | | | | | | | | | | | | | | | Italian government | | | | | | | | | | | | |
|  | | | Award for excellence in high school studies. | | | | | | | | | | | | | | | | | | | | | | | | | | | |