|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Luca Di Stasio** | | | | | | | | | | | | | | | | | | | |
| **R&D Professional** | | | | | | | | | | | | | | | | | | | |
| 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** | | |  | | | | | | | | |  | | | | | | | |
| **Employment History** | | | | | | | | | | | | | | | | | | | |
| **Kaust** | | | | | | | | | | | | Thuwal, Saudi Arabia | | | | | | | |
| Apr 2020 - Present | | | **Postdoctoral Researcher** *(with Prof. Brian Moran)* | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **Université de Lorraine** | | | | | | | | | | | | Nancy, France | | | | | | | |
| Sep 2020 – Feb 2021 | | | **Guest Lecturer** | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **Luleå University of Technology** | | | | | | | | | | | | Luleå, Sweden | | | | | | | |
| Jan 2018 – Dec 2019 | | | **Early-stage Researcher** *(with Prof. Janis Varna)* | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| Jan 2018 – Dec 2019 | | | **University Teaching Assistant** | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **Université de Lorraine** | | | | | | | | | | | | Nancy, France | | | | | | | |
| Sep 2016 – Dec 2017 | | | **University Teaching Assistant** | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| Sep 2015 – Dec 2017 | | | **Early-stage Researcher** *(with Prof. Zoubir Ayadi)* | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | |  | | | | | | | |
| **The Learning Center Zürich** | | | | | | | | | | | | Zürich, Switzerland | | | | | | | |
| Dec 2014 – Aug 2015 | | | **Personal Tutor** | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **ETH Zürich** | | | | | | | | | | | | Zürich, Switzerland | | | | | | | |
| Sep 2013 – Aug 2015 | | | **Early-stage Researcher** *(with Prof. Hans Herrmann)* | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **IMDEA Materials Institute** | | | | | | | | | | | | Madrid, Spain | | | | | | | |
| Nov 2012 – Aug 2013 | | | **Research Assistant** *(with Dr. Claudio Lopes)* | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **Drexel University** | | | | | | | | | | | | Philadelphia, USA | | | | | | | |
| Jan 2012 – Jun 2012 | | | **Research Assistant** *(with Prof. Sorin Siegler and Prof. Jonathan Spanier)* | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **Politecnico di Milano** | | | | | | | | | | | | Milano, Italy | | | | | | | |
| Jan 2011 – Jun 2011 | | | **Personal Tutor** | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **Istituto Sacro Cuore** | | | | | | | | | | | | Milano, Italy | | | | | | | |
| Oct 2009 – Jun 2011 | | | **Learning Support Teacher** | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | | | | | | | | | |
| **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 | | | | | | | |
| Sep 2002 – Jun 2007 | | | **Dip** | **Scientific High School** | | | | | | | | **GPA 100/100 cum Laude** | | | | | | | |
|  | | | Istituto Sacro Cuore | | | | | | | | | Milano, Italy | | | | | | | |
| Sep 1997 – Jun 2007 | | |  | **Cello Studies** | | | | | | | |  | | | | | | | |
|  | | | Municipal School of Music | | | | | | | | | Cernusco s/N, Italy | | | | | | | |
| **Professional Development (Selected)** | | | | | | | | | | | | | | | | | | | |
| Oct – Dec 2021 | | | **Higher Education Teaching Certificate** | | | | | | | | | | | | | | | | |
|  | | | Harvard University (through HarvardX) | | | | | | | | | | | | | | | USA | |
| May 2021 | | | **Structuring Machine Learning Projects** | | | | | | | | | | | | | | | | |
|  | | | DeepLearning.AI (through Coursera) | | | | | | | | | | | | | | | | USA |
| Apr 2021 | | | **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization** | | | | | | | | | | | | | | | | |
|  | | | DeepLearning.AI (through Coursera) | | | | | | USA | | | | | | | | | | |
| Apr 2021 | | | **Neural Networks and Deep Learning** | | | | | | | | | | | | | | | | |
|  | | | DeepLearning.AI (through Coursera) | | | | | | USA | | | | | | | | | | |
| Mar 2021 | | | **French National Qualification as Assistant/Associate Professor** | | | | | | | | | | | | | | | | |
|  | | | Ministère de l’Enseignement Supérieur et de la Recherche | | | | | | | | | | | | | France | | | |
| 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 | | | | | | | | | | |
| Nov – Dec 2016 | | | **CSR and Value Creation** | | | | | | | | | | | | | | | | |
|  | | | Audencia Business School | | | | | | France | | | | | | | | | | |
| Sep – Nov 2016 | | | **Project Management** | | | | | | | | | | | | | | | | |
|  | | | Ecole Centrale Lille | | | | | | France | | | | | | | | | | |
| Jul 2015 | | | **Effective Exploitation of High Performance Computing Systems** | | | | | | | | | | | | | | | | |
|  | | | Swiss National Supercomputing Center | | | | | | Switzerland | | | | | | | | | | |
| Jul 2015 | | | **CNC Technician Certificate** | | | | | | | | | | | | | | | | |
|  | | | Centro di Formazione Salesiano Don Bosco | | | | | | | | Italy | | | | | | | | |
| **Computer Skills** | | |  | | |  |  |  | | | | |  | | | |  | | |
|  | | |  | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | |  | | | | | | | |
| **Technical Skills** | | | | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | |  | | | | | | | |
| **Soft Skills** | | | | | | | | | | | | | | | | | | | |
|  | | |  | | | | | | | | |  | | | | | | | |
| **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 fiber-matrix debonding process   *In collaboration with:* Mr. ,Prof. Janis Varna   * Effect of aging on transverse cracking in glass fiber reinforced polymer composites * *In collaboration with:* Mr. Pietro, Prof. Janis Varna * 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 extraction of fracture parameters from   *In collaboration with:* Dr. Claudio Lopes | | | | | | | | | | | | | | | | | | | |
| **Publications** | | | | | | | | | | | | | | | | | | | |
| Peer-reviewed Journal Publications | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
| Conference Proceedings | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
| Conference Contributions and Seminars | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
| Theses | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
| **Professional Honors and Awards** | | | | | | | | | | | | | | | | | | | |
| 2019 | **Wallenberg Jubileumsanslaget Travel Grant** | | | | | | | | Knut and Alice Wallenberg Foundation | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2019 | **Erasmus+ Higher Education** | | | | | | | | European Commission | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2015 – 2018 | **Erasmus Mundus Fellowship** | | | | | | | | European Commission | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2013 | **PEGASUS Award** | | | | | | | | PEGASUS | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2012 – 2013 | **Erasmus Fellowship** | | | | | | | | European Commission | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2011 – 2012 | **EU-US Atlantis Program Fellowship** | | | | | | | | European Commssion & US DoEd | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2012 | **Academic Excellence Award** | | | | | | | | BCC di Cernusco s/N | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2007 – 2010 | **Merit-based Tuition Fees Exemption** | | | | | | | | Politecnico di Milano | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2007 | **Academic Excellence Award** | | | | | | | | BCC di Cernusco s/N | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
| 2007 | **Academic Excellence Award** | | | | | | | | Italian government | | | | | | | | | | |
|  |  | | | | | | | |  | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | |