

## Giulia DELO

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05/27/1998 ERICE (TP) ITALY

Nationality: Italian

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### EDUCATION

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- 11/08/2021 - up to present \* **Ph.D. in Aerospace Engineering**  
Politecnico di Torino  
average mark 30.0 - Credits 4 %
- 08/28/2019 - 10/28/2021 \* **Master's Degree in Civil Engineering**  
Alta Scuola Politecnica (Politecnico di Torino)  
Thesis: Elastic-plastic-softening evolutionary analysis of masonry arches:  
The application of the cohesive/overlapping crack model  
Supervisors Carpinteri A., Accornero F., Cafarelli R., Mariani S.  
Final grade 110/110 cum laude
- 07/21/2016 - 07/26/2019 \* **Bachelor's Degree in Civil Engineering**  
Politecnico di Torino  
Thesis: Approfondimento sul calcolo della tensione dovuta alla torsione in un solido di  
De Saint Venant con sezione generica  
Final grade 110/110 cum laude
- 2016 **high school diploma MATURITA' SCIENTIFICA**  
Final grade 100/100

### LANGUAGE SKILLS

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Mother tongue Italian

Other languages

English

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user

[Common European Framework of Reference for Languages](#)

### COMPUTER SKILLS

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OPERATING SYSTEM

advanced level

PROGRAMMING  
LANGUAGE/CODE

advanced level

PROGRAMS/SOFTWARE  
E good level

DATABASES  
good level

SPREADSHEET  
advanced level

## OTHER INFORMATION

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Driving license  
Available to travel on business in Italy, abroad  
Available to relocate in Italy, abroad

## PUBLICATIONS

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- 2022 Giulia Delo; Marco Civera; Erica Lenticchia; Gaetano Miraglia; Cecilia Surace; Rosario Ceravolo (2022). "Interferometric Satellite Data in Structural Health Monitoring: An Application to the Effects of the Construction of a Subway Line in the Urban Area of Rome". In APPLIED SCIENCES, ISBN 2076-3417
- 2022 Delo G.; Bunce A.; Cross E. J.; Gosliga J.; Hester D.; Surace C.; Worden K.; Brennan D. S. (2022). "When is a Bridge Not an Aeroplane? Part II: A Population of Real Structures". In European Workshop on Structural Health Monitoring. EWSHM 2022. Lecture Notes in Civil Engineering, vol 254. Springer, Cham, pag. 965-974, ISBN 978-3-031-07258-1

## CONFERENCES

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- 09/12/2023 - 09/14/2023 Presenter "14th International Workshop on Structural Health Monitoring - On the influence of structural attributes for assessing similarity in population-based Structural Health Monitoring" Stanford University, Stanford, CA, UNITED STATES
- 07/02/2023 - 07/05/2023 Presenter "XII International Conference on Structural Dynamics - Novelty detection across a small population of real structures: A negative selection approach" TU Delft, Fact. Civil Engineering, Delft, NETHERLANDS
- 07/04/2022 - 11/10/2022 Conference proceedings "European Workshop on Structural Health Monitoring. EWSHM 2022 - When is a Bridge Not an Aeroplane? Part II: A Population of Real Structures" University of Palermo, Palermo, ITALY

## EXAMS \*

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### Ph.D. in Aerospace Engineering

conference date	Exam	Credits	Final grade
11/17/2021	Time management	1	passed
12/02/2021	Public speaking	1	passed
12/03/2021	Communication	1	passed
01/31/2022	Structural dynamics of aerospace structures	6	30
03/07/2022	Project management	1	passed
05/24/2022	Advanced topics in the finite element method	4	passed
06/16/2022	Writing Scientific Papers in English	3	passed
06/27/2022	Aircraft structures	8	30

10/27/2022	Basic of experimental mechanics in dynamics	3	passed
01/17/2023	Digital Image Correlation for experimental vibration measurements. (didattica di eccellenza)	2	passed
02/15/2023	Mimetic learning	4	passed
04/03/2023	Research integrity	1	passed
04/03/2023	Design Thinking, Processes and Methods	.4	passed
05/03/2023	Responsible research and innovation, the impact on social challenges	1	passed
06/13/2023	(It) Strutture dati in Python	4	passed
07/21/2023	Machine learning for pattern recognition	4	passed

### Master's Degree in Civil Engineering

conference date	Exam	Credits	Final grade
01/30/2020	Foundations	8	30
02/03/2020	Structural Mechanics II	8	30 cum laude
02/06/2020	Hydrology	8	29
02/12/2020	Construction of Roads, Railways and Airports	8	30
06/27/2020	Technology of construction materials	6	30
06/29/2020	Plasticity and fracture	8	27
06/30/2020	Theory and design of reinforced and prestressed concrete structures	8	28
07/17/2020	Geomatics	6	30 cum laude
01/25/2021	Computational Mechanics	6	30 cum laude
02/01/2021	Earthquake Engineering	8	30
02/18/2021	Static and dynamic instability of structures/ Theory and design of structures steel and composite	12	30
07/02/2021	Bridges Construction and Design	8	30
07/15/2021	Safety assessment and retrofitting of existing structures and infrastructures	6	30 cum laude
10/28/2021	Thesis	20	passed

### Bachelor's Degree in Civil Engineering

conference date	Exam	Credits	Final grade
11/03/2016	English Language 1st level	3	passed
01/30/2017	Mathematical analysis I	10	30
02/03/2017	Computer science	8	30
02/07/2017	Chemistry	8	26
06/19/2017	Mathematical analysis II - Talenti	10	30 cum laude
06/26/2017	Linear Algebra and Geometry	10	30 cum laude
07/07/2017	Physics I	10	29
01/30/2018	Thermodynamics and Heat Transfer for Engineers	8	30 cum laude
02/02/2018	Drawing	6	30 cum laude
02/09/2018	Physics II - Talenti	10	28
06/25/2018	Geology/Safety and Civil Protection	12	29
06/27/2018	Seismic risk	6	30 cum laude
06/28/2018	Science and technology of materials	6	27
07/06/2018	Analytical Mechanics	8	29
07/10/2018	Topography	6	30 cum laude
01/29/2019	Hydraulics	10	30
02/01/2019	Probability and statistics for engineering	6	30 cum laude
02/06/2019	Structural Mechanics	10	30 cum laude
02/27/2019	Tools and methods for sustainability of territorial and building systems	6	29
06/27/2019	Geotechnics	10	30
07/04/2019	Road infrastructures	10	30 cum laude
07/04/2019	Structural Engineering	10	30
07/26/2019	Final essay	3	passed

\* Fields marked with an \* are certified by Politecnico di Torino, while the potential thesis description is added by the candidate.