

# Europass Curriculum Vitae



## Personal information

Name	<b>Giulia Crespi</b>
Address	Via Postumia 3, 10141 Torino (TO), Italy
Mobile	+39 3472519411
E-mail(s)	<a href="mailto:giulia.crespi@polito.it">giulia.crespi@polito.it</a> <a href="mailto:giucrespi@icloud.com">giucrespi@icloud.com</a>
Nationality	Italian
Date of birth	9 Jan 1993
Gender	Female

## Occupational field

**PhD Student in Electrical, Electronics and Telecommunication Engineering at Politecnico di Torino**

## Work experience

Dates	<i>1 Nov 2017 – ongoing</i>
Occupation or position held	PhD student in Electrical, Electronics and Telecommunication Engineering
Location	Department of Energy Politecnico di Torino Corso Duca degli Abruzzi 24, 10129 Torino (TO), Italy
Preliminary thesis title	“The role of electricity in future energy transition: a multi-layer approach”
Main activities and responsibilities	Research activities related to energy transition, energy and power system modelling, forecasting scenario analysis, multi-criteria analysis, policy decision-making support Participation to international and national projects in collaboration with: <ul style="list-style-type: none"> <li>- State Grid Corporation of China (SGCC)</li> <li>- Enel Foundation</li> </ul>
Dates	<i>16 May 2017 – 15 Nov 2017</i>
Occupation or position held	Research scholar
Location	Department of Energy Politecnico di Torino Corso Duca degli Abruzzi 24, 10129 Torino (TO), Italy
Main activities and responsibilities	Research activities related to the topic “Energy and environmental evaluations for the definition of retrofit options for existent and historical building in a Post-Carbon vision”
Dates	<i>12 May 2016 – 29 Jul 2016</i>
Occupation or position held	Internship at Consortium UN.I.VER, Vercelli
Location	Via Dante Alighieri 93, 13100 Vercelli (VC), Italy
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Preliminary energy audits of public buildings</li> <li>- Preliminary energy audits of pumping and wastewater plants</li> <li>- Elaboration of Excel databases and formats for data collection</li> </ul>
Dates	<i>2014 – 2016</i>
Occupation or position held	Collaboration at Tourist Office at the Municipality of Manta
Location	Piazza del Popolo 1, 12030 Manta (CN), Italy
Main activities and responsibilities	Collaboration to tourist activities for the summer opening of Santa Maria del Monastero Church, Manta (CN)

## Education and training

Dates	<i>21 Oct 2014 – 05 Apr 2017</i>
Title of qualification awarded	Master’s degree in Energy and Nuclear Engineering
General information	Address: Building physics Grade: 110/100 com laude

Principal subjects/occupational skills covered  
 Master thesis: "Towards a low-carbon society. Retrofit scenarios for emissions reduction in hotel buildings in the view of Post Carbon City"  
 Tutor(s): prof. Stefano Paolo Corgnati, dr. Cristina Becchio  
 - Collaboration with Rhoss S.p.A company and research group "Technology Energy Building Environment (TEBE)" at Politecnico di Torino  
 - Building energy dynamic simulation using EnergyPlus software  
 - Competences in nearly zero energy buildings (NZEB), low-carbon building, post-carbon city  
 - Gain of a scholarship from Department of Energy of Politecnico di Torino for developing a thesis on the topic "Towards post-carbon hotels"

Name and type of organisation providing education and training  
 Politecnico di Torino  
 Corso Duca degli Abruzzi 24, 10129 Torino (TO), Italy

Dates  
 16 Sep 2015 – 13 Feb 2016  
 Title of qualification awarded  
 Mobility: E+/EU Programme Countries  
 Principal subjects/occupational skills covered  
 - Classes on indoor environmental quality, energy simulation of buildings, energy management in buildings, industrial ecology and energy conservation, production and storage  
 - Group working and projects  
 - Learning of EnergyPlus and SimaPro tools

Name and type of organisation providing education and training  
 Universidade de Coimbra  
 Rua Silvio Lima, Pólo II da Universidade de Coimbra, 3030-790 Coimbra, Portugal

Dates  
 22 Sep 2011 – 16 Oct 2014  
 Title of qualification awarded  
 Bachelor's degree in Energy Engineering  
 General information  
 Grade: 104/110  
 Bachelor thesis: "New insulation materials for energy savings in buildings"  
 Tutor(s): prof. Milena Salvo  
 Principal subjects/occupational skills covered  
 - Literature review on innovative insulation materials  
 - Review on possible energy savings associated with the application of VIP (Vacuum Insulation Panels) in different building typologies

Name and type of organisation providing education and training  
 Politecnico di Torino  
 Corso Duca degli Abruzzi 24, 10129 Torino (TO), Italy

Mother tongue(s)  
 Other language(s)  
 Self-assessment  
 European level (\*)

**Italian**

**Understanding**

Listening	Reading
C1	C1
A2	A2

**Speaking**

Spoken interaction	Spoken production
B2	B2
A1	A1

**Writing**

C1
A2

**English**  
**French**

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

In possession of: Cambridge Preliminary English Test (P.E.T) "pass with merit" (2010)

In possession of: Diplôme d'études en langue français DELF A2 (2006)

Computer skills and competences

In possession of: ECDL European Computer Driving Licence (2011)

Windows, MacOS

Office (Word, Excel, PowerPoint)

MATLAB

Software/tools:

- EnergyPlus, DesignBuilder
- Power World Simulator
- SuperDecisions, ExpertChoice
- Basic knowledge of: AutoCAD, ArcGIS

Driving licence

B

**Conferences/Schools**

Dates  
 23 Jun 2019 – 26 Jun 2019

Name  
 30th EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH (EURO2019)

Location  
 University College Dublin (UCD), Dublin (Ireland)

General information  
 Speaker at the technical session TD-44: AHP Application in the stream "Analytic Hierarchy Process (AHP)" on 25<sup>th</sup> June 2019

Chair: Erdem Aksakal

Proceeding: "Application of hybrid A'WOT method to European electricity interconnections planning" (G. Crespi, C. Becchio, E. Bompard, M. Bottero, S.P. Corgnati, Z. Han, T. Huang)

Dates	24 Jul 2019 – 26 Jul 2019
Name	4 <sup>th</sup> Energy for Sustainability International Conference 2019 – Designing a Sustainable Future
Location	Politecnico di Torino, Italy
General information	Speaker at the technical session: Markets and Policies on 25 <sup>th</sup> July 2019 Chair: Patricia Silva Proceeding: “Multi-criteria approach to transmission expansion planning in Europe” (G. Crespi, C. Becchio, M. Bottero, T. Huang, E. Bompard, S.P. Corgnati)  Speaker at the workshop “Evaluation tools for decision-making process in energy investment projects” on 25 <sup>th</sup> July 2019 with Dr. Cristina Becchio and Dr. Federico Dell’Anna  Speaker at the workshop “Science based support for energy transition” on 25 <sup>th</sup> July 2019 with prof. Stefano Corgnati and prof. Stefano Lo Russo
Dates	2 Sep 2019 – 4 Sep 2019
Name	Building Simulation 2019
Location	Angelicum Congress Centre, Rome, Italy
General information	Speaker at the technical session 241: Zero Energy Buildings – 04 on 5 <sup>th</sup> September 2019 Chair: Enrico Fabrizio Proceeding: “Retrofit Scenarios For Emission Reduction In Italian Hotels Towards a Post-Carbon City” (G. Crespi, C. Becchio, S.P. Corgnati)
Dates	11 Oct 2019 – 13 Oct 2019
Name	35 <sup>th</sup> Annual Conference of the Power System and Automation of the Chinese Universities
Location	Chengdu, China
General information	Speaker at the technical session on 13 <sup>th</sup> October Chair: Tao Huang Proceeding: “European Power Grid Development and its Compatibility with Global Energy Interconnection” (Z. Han, G. Crespi, T. Huang, E. Bompard, S.P. Corgnati)
Notes	3 <sup>rd</sup> prize for best papers within the conference
Dates	14 Oct 2019 – 16 Oct 2019
Name	Global Transitions 2019 Conference
Location	Tsinghua University, Beijing, China
General information	Speaker at the technical session on 15 <sup>th</sup> October Chair: Tao Huang Proceeding: “Multi-criteria approach to future transition of EU transmission network” (G. Crespi, C. Becchio, M. Bottero, T. Huang, Z. Han, E. Bompard, S.P. Corgnati)
Dates	8 Jul 2019 – 12 Jul 2019
Name	Scuola Estiva di Fisica Tecnica, XI edizione “Nuove frontiere in tema di trasmissione del calore”
Location	Massa Lubrense - Sorrento, Italy
General information	32 ore – 6 CFU
Dates	11 Aug 2019 – 25 Aug 2019
Name	Doctoral Summer School on Affordable Energy Transition of the Sino European Engineering Platform, SEEP
Location	Shanghai Jiao Tong University, Shanghai, China and Zhejiang University, Hangzhou, China
General information	60 hours

## Publications

Title	HVAC solutions for energy retrofitted hotel in Mediterranean area
Authors	C. Becchio, S.P. Corgnati, M. Vio, <b>G. Crespi</b> , L. Prendin, M. Magagnini
Journal	Energy Procedia 133, pp. 145-157
Year	2017
Title	The Polyvalent heat pumps technology in retrofit of existing HVAC systems
Authors	M. Vio, C. Becchio, S.P. Corgnati, <b>G. Crespi</b> , M. Babuin, S. Morassutti
Journal	Energy Procedia 133, pp. 158-170
Year	2017
Title	Toward NZEB by optimizing HVAC system configuration in different climates
Authors	C. Becchio, S.P. Corgnati, M. Vio, <b>G. Crespi</b> , L. Prendin, M. Ranieri, D. Vidotto

Journal Year	Energy Procedia 140, pp. 115-126 2017
Title	A simplified electrical network model for techno-economic analysis of globally integrated electricity market (paper accepted for "Energy for Sustainability International Conference 2019", Turin, 24 <sup>th</sup> – 26 <sup>th</sup> July 2019)
Authors Journal Year	<b>G. Crespi</b> , Z. Han, T. Huang, E. Bompard, S.P. Corgnati - 2019
Title	Multi-criteria approach to transmission expansion planning in Europe (paper accepted for "Energy for Sustainability International Conference 2019", Turin, 24 <sup>th</sup> – 26 <sup>th</sup> July 2019)
Authors Journal Year	<b>G. Crespi</b> , C. Becchio, M. Bottero, T. Huang, E. Bompard, S.P. Corgnati - 2019
Title	Retrofit scenarios for emission reduction in Italian Hotels towards a Post-Carbon City (paper accepted for "16th IBPSA International Conference and Exhibition", Rome, 2 <sup>nd</sup> – 4 <sup>th</sup> September 2019)
Authors Journal Year	<b>G. Crespi</b> , C. Becchio, S.P. Corgnati - 2019
Title	Profiling occupant behaviour in Italian households for enhanced building simulation input: insights into a survey-based investigation (paper accepted for "16th IBPSA International Conference and Exhibition", Rome, 2 <sup>nd</sup> – 4 <sup>th</sup> September 2019)
Authors Journal Year	V.M Barthelmes, <b>G. Crespi</b> , M.V Di Nicoli, C. Becchio, V. Fabi, S.P. Corgnati - 2019
Title Authors Journal Year	Drivers for the energy transition of the residential sector in Italy G. Crespi, E. Bompard REHVA Journal, vol. 57, Issue 1 2020

### Teaching activities

Course Year Activities	Fisica Tecnica Ambientale (building physics) Academic year 2019/2020 Tutoring, preparation and execution of in-class exercises
Course Year Activities	Fisica Tecnica Ambientale (building physics) Academic year 2018/2019 Tutoring, preparation and execution of in-class exercises
Course Year Activities	Fisica Tecnica Ambientale (building physics) Academic year 2017/2018 Tutoring, preparation and execution of in-class exercises

**Annexes** Cambridge Preliminary English Test (P.E.T) "pass with merit" (2010)

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*Giulia Crespi*