

CURRICULUM VITAE



PERSONAL DATA

Name	Gerardo Carpentieri
Home address	Via Aurelio Covotti, 8 83100 Avellino (AV), Italy
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Personal e-mail	gerardo_carpentieri@msn.com
Personal website	http://www.gcarpentieri.altervista.org/
Scopus author ID	55937146400
ORCID Url	http://orcid.org/0000-0002-8100-8834
Nationality	Italian
Date of birth	6 October 1986

RECENT WORK EXPERIENCES

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| • Dates | 01/2017 – today |
| • Organization | Acca Software S.p.A.,
Contrada Rosole, 13, 83043 Bagnoli Irpino AV, Italy, https://www.acca.it/ |
| • Gruppo di lavoro | Guido Cianciulli, Ing. Antonio Cianciulli, Marcantonio Natale |
| • Working group | Software house for civil engineering |
| • Type of work | Full time |
| • Main activities and responsibilities | Development and analyst |
| • Dates | 02/2016 – 07/2016 (6 months) |
| • Organization | Texas A&M University (TAMU), Collage Station
401 Joe Routt Blvd, College Station, TX 77843, United States |
| • Working group | Prof. Robert E. Skelton |
| • Type of business or sector | Università, Dipartimento di Ingegneria Aerospaziale |
| • Type of work | Postdoc, Assegno di Ricerca |
| • Main activities and responsibilities | Dynamics and control of tensegrity structures |
| • Dates | 09/2015 – 12/2015 (4 months) |
| • Organization | University of Naples Federico II,
Corso Umberto I, 40, 80138 Napoli, Italy, http://www.unina.it |
| • Working group | Dr. Mariano Modano, Dr. Francesco Fabbrocino, Prof. Fernando Fraternali. |
| • Type of business or sector | University, Structural department for engineering and architecture |
| • Type of work | Research Assistant |
| • Main activities and responsibilities | Numerical modelling of the mortar joints in masonry walls |
| • Dates | 06/2014 – 11/2014 (6 months) |

<ul style="list-style-type: none"> • Organization 	UCSD – University of California San Diego, 9500 Gilman Dr, La Jolla, CA 92093, United States, http://ucsd.edu/
<ul style="list-style-type: none"> • Working group 	Prof. Robert E. Skelton, Prof. Mauricio de Oliveira, Prof. Vitali F. Nesterenko, Prof. Fernando Fraternali
<ul style="list-style-type: none"> • Type of business or sector 	University, Jacobs School of Engineering, Mechanical and Aerospace Engineering (MAE).
<ul style="list-style-type: none"> • Type of work 	Visiting student researcher (J1 VISA No. H2548031)
<ul style="list-style-type: none"> • Main activities and responsibilities 	Scientific research on tensegrity structures, building of multi-scale models, statics and dynamics simulations
<ul style="list-style-type: none"> • Dates 	11/2014 (1 month)
<ul style="list-style-type: none"> • Organization 	Texas A&M University (TAMU), College Station, 401 Joe Routh Blvd, College Station, TX 77843, United States
<ul style="list-style-type: none"> • Working group 	Prof. Robert E. Skelton, Prof. Fernando Fraternali
<ul style="list-style-type: none"> • Type of business or sector 	University, Department of Aerospace Engineering
<ul style="list-style-type: none"> • Type of work 	Visiting student researcher
<ul style="list-style-type: none"> • Main activities and responsibilities 	Scientific research on tensegrity structures, statics and dynamics simulations
<ul style="list-style-type: none"> • Dates 	09/2012 – 12/2012 (4 months)
<ul style="list-style-type: none"> • Organization 	CALTECH – California Institute of Technology, 1200 East California Boulevard, Pasadena, California 91125, United States of America, www.caltech.edu
<ul style="list-style-type: none"> • Working group 	Prof. Chiara Daraio, Prof. Fernando Fraternali
<ul style="list-style-type: none"> • Type of business or sector 	University, GALCIT Graduate Aerospace Laboratories (Firestone Labs)
<ul style="list-style-type: none"> • Type of work 	Visiting student researcher (F1 VISA No. F3928408)
<ul style="list-style-type: none"> • Main activities and responsibilities 	Scientific research on tensegrity structures, building of multi-scale models, statics and dynamics simulations, 3D printing, study of solitary waves in tensegrity lattices

OTHER WORK EXPERIENCES

<ul style="list-style-type: none"> • Dates 	06/2013 – 05/2014 (11 months)
<ul style="list-style-type: none"> • Organization 	GEO CONSULT s.r.l., S.S. 7 bis, Zona PIP, Manocalzati (AV), Italy, www.geoconsultlab.it
<ul style="list-style-type: none"> • Working group 	Eng. Erminio Pagliuca, Dr Carmen Polzone, Prof. Fernando Fraternali
<ul style="list-style-type: none"> • Type of business or sector 	Research corporation, test laboratory
<ul style="list-style-type: none"> • Type of work 	PhD programme of the University of Salerno (Stage)
<ul style="list-style-type: none"> • Main activities and responsibilities 	Scientific research on tensegrity structures, building of multi-scale models, statics and dynamics simulations
<ul style="list-style-type: none"> • Dates 	05/2011 – 07/2011 (3 months)
<ul style="list-style-type: none"> • Organization 	ZAG – Slovenian National Building and Civil Engineering Institute, Dimiceva Ulica, 12 – SI 1000, Ljubljana, Slovenia, www.zag.si
<ul style="list-style-type: none"> • Working group 	Marjana Lutman, Dr Matija Gams, Prof. Miha Tomazevic, Prof. Enzo Martinelli
<ul style="list-style-type: none"> • Type of business or sector 	Research corporation, test laboratory
<ul style="list-style-type: none"> • Type of work 	Erasmus placement
<ul style="list-style-type: none"> • Main activities and responsibilities 	Scientific research on masonry structures, application of innovative methods for seismic analysis and interpretation of experimental results on shaking tables
<ul style="list-style-type: none"> • Dates 	07/2010 – 09/2010 (3 months)
<ul style="list-style-type: none"> • Organization 	Studio di Architettura ed Urbanistica, P.zza Libertà, 83100, Avellino (AV)
<ul style="list-style-type: none"> • Working group 	Arch. Michele Carluccio, Arch. Andrea Di Rosa
<ul style="list-style-type: none"> • Type of company or field 	Professional technical office
<ul style="list-style-type: none"> • Type of work 	Traineeship/stage
<ul style="list-style-type: none"> • Main activities and responsibilities 	Design and computation of reinforced concrete structures, applications for professional calls

<ul style="list-style-type: none"> • Dates • Organization • Working group • Type of company or field • Type of work • Main activities and responsibilities 	<p>11/2007 – 03/2008 (5 months)</p> <p>Laboratory of Materials and Structures of the Department of Civil Engineering, University of Salerno</p> <p>Prof. Enzo Martinelli, Prof. Gianvittorio Rizzano</p> <p>Research institution, laboratory institution</p> <p>Traineeship/stage</p> <p>Scientific research, set-up of tests on samples of concrete and structural beams and columns. In particular: set-up of testing machines, compression tests of concrete cubes and carrots, ultrasonic tests, application of strain gauges and LVDT, wire sensors, load cells, FRP</p>
<ul style="list-style-type: none"> • Dates • Organization • Working group • Type of company or field • Type of work • Main activities and responsibilities 	<p>12/2004 – 03/2005 (4 months)</p> <p>Impresa di costruzioni Perrotti SAS; Via Trinità, 74, Avellino, AV, 83100</p> <p>Eng. Perrotti Pasquale.</p> <p>Construction company</p> <p>Traineeship/stage</p> <p>Design and computation of reinforced concrete structures, participation in calls and applications</p>
<ul style="list-style-type: none"> • Dates • Organization • Working group • Type of company or field • Type of work • Main activities and responsibilities 	<p>10/2004 – 05/2005 (8 months)</p> <p>C.S.&G. Systems Inc. di Carpentieri Silvio Antonio, Via Fontana, 29, Forino (AV), 83020</p> <p>Geom. Silvio Antonio Carpentieri</p> <p>Professional studio</p> <p>Traineeship</p> <p>Design and computation of reinforced concrete structures, participation in calls and applications</p>

EDUCATION & QUALIFICATIONS

<ul style="list-style-type: none"> • Dates • Qualification • Name and type of educational or training institute • Settore disciplinare • Date of earning • Grade 	<p>04/2018 – 04/2024 (6 years)</p> <p>National Scientific Habilitation (D.D. 1532/2016, Legge 240/10)</p> <p>Ministry of Education, Universities and Research (Italy), http://abilitazione.miur.it</p> <p>Competition sector 08/B2 (Mechanics of Structures)</p> <p>April 5, 2018</p> <p>Habilitated</p>
<ul style="list-style-type: none"> • Dates • Qualification • Name and type of educational or training institute • Working group • Dissertation • Tutors • Main subjects / professional abilities 	<p>01/2012 – 12/2014 (3 years)</p> <p>PhD in Structural Engineering, Buildings and Urban Recovery</p> <p>Department of Civil Engineering - University of Salerno (www.unisa.it)</p> <p>Prof. Fernando Fraternali, Ada Amendola, Dr Saverio Spadea, Elena De Chiara, Dr Giuseppe Rocchetta, Dr Rosaria Chechile</p> <p>On the mechanical modeling and the optimal design of tensegrity structures</p> <p>Prof. Fernando Fraternali, Prof. Robert E. Skelton</p> <p>Scientific research in structural engineering, innovative materials, structural rehabilitation, recovery of historic centres</p>
<ul style="list-style-type: none"> • Dates • Qualification • Name and type of educational or training institute • Admission number • Grade 	<p>10/2011 – 12/2011 (3 months)</p> <p>Member of the Engineering Society of Avellino (Section A): Civil and Environmental Sector - Year 2011: Second Session</p> <p>Register of the Engineers of the Province of Avellino (www.ordineingegneri.av.it)</p> <p>2545</p> <p>226/240</p>

<ul style="list-style-type: none"> • Dates • Qualification • Name and type of educational or training institute • Dissertation • Tutors • Date of defence • Grade 	<p>10/2008 – 09/2011 (3 years)</p> <p>Master's degree in structural civil engineering</p> <p>University of Salerno (www.unisa.it)</p> <p>Design-oriented analysis methods for masonry structures in seismic areas: theoretical formulation and validation of experimental results</p> <p>Prof. Enzo Martinelli, Dr Matija Gams</p> <p>27 September, 2011</p> <p>110/110 cum laude</p>
<ul style="list-style-type: none"> • Dates • Qualification • Name and type of educational or training institute • Dissertation • Tutors • Date of defence • Grade 	<p>10/2005 – 09/2008 (3 years)</p> <p>Bachelor's degree in civil engineering</p> <p>University of Salerno (www.unisa.it)</p> <p>Metodologie distruttive e non distruttive per la valutazione delle caratteristiche meccaniche del calcestruzzo (in Italian)</p> <p>Prof. Ciro Faella, Dr Nicola Salerno</p> <p>22 September 2008</p> <p>110/110 cum laude</p>
<ul style="list-style-type: none"> • Dates • Qualification • Name and type of educational or training institute • Date of defence • Grade 	<p>09/2000 – 11/2005 (5 years)</p> <p>High school diploma</p> <p>'Oscar D'Agostino' Technical Institute</p> <p>30 November 2005</p> <p>100/100</p>

AWARDS AND HONOURS

<ul style="list-style-type: none"> • Date • Name • Organization 	<p>2013-2015 (2 years)</p> <p>Teaching fellow and member of the examination committee of the course of 'Mechanics of Solids and Structures'</p> <p>Department of Civil Engineering, University of Salerno (www.unisa.it)</p>
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COURSES

<ul style="list-style-type: none"> • Dates • Title • Name and institute • Main subjects / professional abilities • Level of national classification 	<p>03/2012 – 05/2012 (3 months, 100 hours)</p> <p>English course – Spring 2015 – Preparation Group for FIRST</p> <p>University Language Centre</p> <p>University of Salerno</p> <p>English Language.</p> <p>Passed</p>
<ul style="list-style-type: none"> • Dates • Title • Authors 	<p>02/2014 – 02/2014 (24 ore)</p> <p>Workshop COMSOL® 'Introduction to multi-physics', 'Tutorial on FEM simulation', 'Introduction on CAD and mesh generation', P. Caccavale, Prof. B. Bisceglia, 3h, 24/02/2014, University of Salerno</p> <p>Paolo Caccavale, Daniele Panfiglio, Prof. Bruno Bisceglie</p>
<ul style="list-style-type: none"> • Dates • Title • Authors • Name and institute 	<p>03/2013 – 05/2013 (3 months)</p> <p>Courses on 'Organization of Worksites' – 6 units</p> <p>Prof. Luigi Ascione, Prof. Valentino Paolo Berardi, Prof. Enrico Sicignano</p> <p>PhD in Structural Engineering, Buildings and Urban Recovery</p> <p>University of Salerno</p>

• Dates	06/2012
• Title	Course 'Analysis and Design of Tensegrity Structures'
• Authors	Prof. Robert E. Skelton, Prof. Fernando Fraternali
• Name and institute	PhD in Structural Engineering, Buildings and Urban Recovery University of Salerno
• Dates	05/2012
• Title	Short course 'Design of timber structures' – 1 unit
• Authors	Prof. Massimo Fragiaco
• Name and institute	PhD in Structural Engineering, Buildings and Urban Recovery University of Salerno
• Dates	03/2012 – 05/2012 (3 months, 100 hours)
• Title	English course – Spring 2012 – Preparation Group for PET
• Name and institute	University Language Centre University of Salerno
• Main subjects / professional abilities	English Language.
• Level of national classification	Excellent
• Dates	01/2004 – 06/2004 (6 months)
• Title	English course
• Name and institute	'Oscar D'Agostino' Technical Institute
• Main subjects / professional abilities	English Language
• Dates	01/2004 – 06/2004 (6 months)
• Title	AutoCAD® Course Level 2 (3D)
• Name and institute	'Oscar D'Agostino' Technical Institute
Main subjects / professional abilities	CAD - Computer Assisted Design
• Dates	01/2003 – 06/2003 (6 months)
• Title	English course
• Name and institute	'Oscar D'Agostino' Technical Institute
• Main subjects / professional abilities	English Language
• Dates	01/2003 – 06/2003 (6 months)
• Title	AutoCAD® Learning course Level 1 (2D)
• Name and institute	'Oscar D'Agostino' Technical Institute
• Main subjects / professional abilities	CAD - Computer Assisted Design

PERSONAL SKILLS AND COMPETENCES

NATIVE LANGUAGE Italian

OTHER LANGUAGES

• Reading	English Proficient (C1)
• Writing	Proficient (C1)
• Speaking	Proficient (C1)

SOCIAL SKILLS AND COMPETENCES

Excellent ability to live and work with other people, in multicultural environments, in positions where communication is important and in situations where teamwork is essential.

ORGANIZATIONAL SKILLS	Excellent ability to organize work meetings, allocate tasks among different people and time. Good communication skills and ability to present essential concepts clearly. Skilled in coordination of people, projects and budgets.
TECHNICAL SKILLS AND COMPETENCES	Excellent knowledge of CAD programs (AutoCAD®, ArchiCAD®, Adobe Photoshop®, Rhinoceros®, SolidWorks®), the Office® package (Word®, Excel®, PowerPoint®), Finite Element programs (COMSOL®, SAP2000®, Acca® Edilus®, Primus®, Termus®, Geoslope®, VCASE, EPANET, AmQuake®), ability to program (C language, Dev-C++, Mathematica®, MATLAB®, FortRan, Visual Studio), scientific paper writing with LaTeX
ARTISTIC SKILLS AND COMPETENCES	Proficiency to produce technical drawings for complex designs with computer (CAD) or by hand
OTHER SKILLS AND COMPETENCES	Knowledge of computational methods for structures like reinforced concrete, steel, masonry, timber, mixed systems, accounting requirements of technical rules in Italy (D.M. 14/01/2008 and Commentary No 617 of 2009), Europe (Eurocodes) and USA (ASTM and FEMA). Knowledge of Ultimate Limit States (ULS) and Service Limit States (SLS) methods.
DRIVING LICENCE	Driving licence type B. Can drive throughout Italy or abroad with own car.
FURTHER INFORMATION	Participation in several national and international conferences. First classified among the students of ITG 'Oscar D'Agostino' in Avellino at the Olympiad of the Mathematics of the Province of Avellino (2004–05). Certificates of merit and scholarships awarded by the 'Oscar D'Agostino' Foundation for the best results.
HOBBIES	<i>Watched sports:</i> soccer, basket (Los Angeles Lakers), football (San Diego Chargers), baseball (San Diego Padres). <i>Sports:</i> running, fitness, weights, swimming, volleyball. <i>Favourite modern music:</i> Beatles, Rolling Stones, Doors, Michael Jackson, Bruce Springsteen, Queen, Elvis Presley, U2. <i>Classical music:</i> Mozart, Beethoven, Verdi, Vivaldi. <i>Other passions:</i> readings, movies, theatre. <i>Movies and tv series:</i> Terminator, Shining, Family Guy, The Simpsons, Futurama, South Park, Star Trek.
Motto	'Stay hungry. Stay foolish.' (S. Jobs)
DECLARATION	I declare that the information in this document is true. I allow the use of personal data in this document according to law 196/2003 'Code for the protection of personal data'.

Date: March 31, 2020

Signature:

Gerardo Carpentieri