

CURRICULUM VITAE



PERSONAL DATA

Name **Gerardo Carpentieri**

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ORCID Url **<http://orcid.org/0000-0002-8100-8834>**

Nationality **Italian**

Date of birth **October 6, 1986**

RECENT WORK EXPERIENCES

- 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)
- Organization UCSD – University of California San Diego,
9500 Gilman Dr, La Jolla, CA 92093, United States, <http://ucsd.edu/>
- Working group Prof. Robert E. Skelton, Prof. Mauricio de Oliveira, Prof. Vitali F. Nesterenko, Prof. Fernando Fraternali
- Type of business or sector University, Jacobs School of Engineering, Mechanical and Aerospace Engineering (MAE).

- Type of work Visiting student researcher (J1 VISA No. H2548031)
 - Main activities and responsibilities Scientific research on tensegrity structures, building of multi-scale models, statics and dynamics simulations
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- Dates 11/2014 (1 month)
 - Organization Texas A&M University (TAMU), College Station, 401 Joe Routh Blvd, College Station, TX 77843, United States
 - Working group Prof. Robert E. Skelton, Prof. Fernando Fraternali
 - Type of business or sector University, Department of Aerospace Engineering
 - Type of work Visiting student researcher
 - Main activities and responsibilities Scientific research on tensegrity structures, statics and dynamics simulations
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- Dates 09/2012 – 12/2012 (4 months)
 - Organization CALTECH – California Institute of Technology, 1200 East California Boulevard, Pasadena, California 91125, United States of America, www.caltech.edu
 - Working group Prof. Chiara Daraio, Prof. Fernando Fraternali
 - Type of business or sector University, GALCIT Graduate Aerospace Laboratories (Firestone Labs)
 - Type of work Visiting student researcher (F1 VISA No. F3928408)
 - 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

- Dates 06/2013 – 05/2014 (11 months)
 - Organization GEO CONSULT s.r.l., S.S. 7 bis, Zona PIP, Manocalzati (AV), Italy, www.geoconsultlab.it
 - Working group Eng. Erminio Pagliuca, Dr Carmen Polzone, Prof. Fernando Fraternali
 - Type of business or sector Research corporation, test laboratory
 - Type of work PhD programme of the University of Salerno (Stage)
 - Main activities and responsibilities Scientific research on tensegrity structures, building of multi-scale models, statics and dynamics simulations
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- Dates 05/2011 – 07/2011 (3 months)
 - Organization ZAG – Slovenian National Building and Civil Engineering Institute, Dimiceva Ulica, 12 – SI 1000, Ljubljana, Slovenia, www.zag.si
 - Working group Marjana Lutman, Dr Matija Gams, Prof. Miha Tomazevic, Prof. Enzo Martinelli
 - Type of business or sector Research corporation, test laboratory
 - Type of work Erasmus placement
 - Main activities and responsibilities Scientific research on masonry structures, application of innovative methods for seismic analysis and interpretation of experimental results on shaking tables
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- Dates 07/2010 – 09/2010 (3 months)
 - Organization Studio di Architettura ed Urbanistica, P.zza Libertà, 83100, Avellino (AV)
 - Working group Arch. Michele Carluccio, Arch. Andrea Di Rosa
 - Type of company or field Professional technical office
 - Type of work Traineeship/stage
 - Main activities and responsibilities Design and computation of reinforced concrete structures, applications for professional calls
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- Dates 11/2007 – 03/2008 (5 months)
 - Organization Laboratory of Materials and Structures of the Department of Civil Engineering, University of Salerno
 - Working group Prof. Enzo Martinelli, Prof. Gianvittorio Rizzano
 - Type of company or field Research institution, laboratory institution

- Type of work Traineeship/stage
- Main activities and responsibilities 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
- Dates 12/2004 – 03/2005 (4 months)
- Organization Impresa di costruzioni Perrotti SAS; Via Trinità, 74, Avellino, AV, 83100
- Working group Eng. Perrotti Pasquale.
- Type of company or field Construction company
- Type of work Traineeship/stage
- Main activities and responsibilities Design and computation of reinforced concrete structures, participation in calls and applications
- Dates 10/2004 – 05/2005 (8 months)
- Organization C.S.&G. Systems Inc. di Carpentieri Silvio Antonio, Via Fontana, 29, Forino (AV), 83020
- Working group Geom. Silvio Antonio Carpentieri
- Type of company or field Professional studio
- Type of work Traineeship
- Main activities and responsibilities Design and computation of reinforced concrete structures, participation in calls and applications

EDUCATION & QUALIFICATIONS

- Dates 04/2018 – 04/2024 (11 years)
- Qualification National Scientific Habilitation (D.D. 1532/2016, Legge 240/10)
- Name and type of educational or training institute Ministry of Education, Universities and Research (Italy), <http://abilitazione.miur.it>
- Settore disciplinare Competition sector 08/B2 (Mechanics of Structures)
- Date of earning April 5, 2018
- Grade Habilitated
- Dates 01/2012 – 12/2014 (3 years)
- Qualification PhD in Structural Engineering, Buildings and Urban Recovery
- Name and type of educational or training institute Department of Civil Engineering - University of Salerno (www.unisa.it)
- Working group Prof. Fernando Fraternali, Ada Amendola, Dr Saverio Spadea, Elena De Chiara, Dr Giuseppe Rocchetta, Dr Rosaria Chechile
- Dissertation On the mechanical modeling and the optimal design of tensegrity structures
- Tutors Prof. Fernando Fraternali, Prof. Robert E. Skelton
- Main subjects / professional abilities Scientific research in structural engineering, innovative materials, structural rehabilitation, recovery of historic centres
- Dates 10/2011 – 12/2011 (3 months)
- Qualification Member of the Engineering Society of Avellino (Section A): Civil and Environmental Sector - Year 2011: Second Session
- Name and type of educational or training institute Register of the Engineers of the Province of Avellino (www.ordineingegneri.av.it)
- Admission number 2545
- Grade 226/240
- Dates 10/2008 – 09/2011 (3 years)
- Qualification Master's degree in structural civil engineering
- Name and type of educational or training institute University of Salerno (www.unisa.it)
- Dissertation Design-oriented analysis methods for masonry structures in seismic areas: theoretical formulation and validation of experimental results

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

AWARDS AND HONOURS

<ul style="list-style-type: none"> • Date • Name • Organization 	<p>2013-2015 (2 years) Teaching fellow and member of the examination committee of the course of 'Mechanics of Solids and Structures' 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) English course – Spring 2015 – Preparation Group for FIRST University Language Centre University of Salerno English Language. Passed</p>
<ul style="list-style-type: none"> • Dates • Title • Authors 	<p>02/2014 – 02/2014 (24 ore) 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 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) Courses on 'Organization of Worksites' – 6 units Prof. Luigi Ascione, Prof. Valentino Paolo Berardi, Prof. Enrico Sicignano PhD in Structural Engineering, Buildings and Urban Recovery University of Salerno</p>
<ul style="list-style-type: none"> • Dates • Title • Authors • Name and institute 	<p>06/2012 Course 'Analysis and Design of Tensegrity Structures' Prof. Robert E. Skelton, Prof. Fernando Fraternali PhD in Structural Engineering, Buildings and Urban Recovery University of Salerno</p>

• Dates	05/2012
• Title	Short course 'Design of timber structures' – 1 unit
• Authors	Prof. Massimo Fragiacomò
• 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®, VECASLU, 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. 17/01/2018 and Commentary No 7 of 2019), 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: August 9, 2023

Signature: