CURRICULUM VITAE di:

Nominativo

Alessandro Zona

Posizione accademica

Macrosettore:	08/B Ingegneria Strutturale e Geotecnica
Settore Concorsuale:	08/B3 Tecnica delle Costruzioni
Settore Scientifico Disciplinare:	ICAR/09 Tecnica delle Costruzioni
Qualifica:	Professore Associato
Anzianità nel ruolo:	4 anni e 7 mesi
Sede Universitaria:	Università degli Studi di Camerino
Struttura di afferenza (dipartimento o altro)	Scuola di Architettura e Design

Posizioni ricoperte precedentemente nel medesimo ateneo o in altri

Periodo	Fascia	Ateneo
2005-2014	Ricercatore Universitario	Università degli Studi di Camerino

Pubblicazioni Scientifiche

n. progr.	anno	Descrizione pubblicazione
1	2002	Dall'Asta A., Zona A. Non-linear analysis of composite beams by adisplacement approach. Computers and Structures 2002, 80(27-30):2217-2228. DOI: 10.1016/S0045-7949(02)00268-7
2	2004	Dall'Asta A., Zona A. Three-field mixed formulation for the non-linear analysis of composite beams with deformable shear connection . <i>Finite</i> <i>Elements in Analysis and Design</i> 2004, 40(4):425-448. DOI: 10.1016/S0168- 874X(03)00071-4
3	2004	Dall'Asta A., Zona A. Slip locking in finite elements for composite beams with deformable shear connection. <i>Finite Elements in Analysis and Design</i> 2004, 40(13-14):1907-1930. DOI: 10.1016/j.finel.2004.01.007

		Dall'Asta A., Zona A. Comparison and validation of displacement and mixed
4	2004	elements for the non-linear analysis of continuous composite beams.
		Computers and Structures 2004, 82(23-26):2117-2130. DOI:
		10.1016/j.compstruc.2004.04.009
		Dall'Asta A., Zona A. Finite element model for externally prestressed
5	2005	composite beams with deformable connection. Journal of Structural
	2005	Engineering 2005, 131(5):706-714. DOI: 10.1061/(ASCE)0733-
		9445(2005)131:5(706)
		Zona A., Barbato M., Conte J.P. Finite element response sensitivity analysis
6	2005	of steel-concrete composite beams with deformable shear connection.
	2003	Journal of Engineering Mechanics 2005, 131(11):1126-1139. DOI:
		10.1061/(ASCE)0733-9399(2005)131:11(1126)
_	2006	Dall'Asta A., Ragni L., Zona A. Steel-concrete composite beams prestressed
7		by external tendons: effects of material and geometric nonlinearities.
		International Journal of Advanced Steel Construction 2006, 2(1):53-70.
		Zona A., Barbato M., Conte J.P. Finite element response sensitivity analysis
8	2006	of continuous steel-concrete composite girders. Steel and Composite
		<i>Structures</i> 2006, 6(3):183-202. DOI: 10.12989/scs.2006.6.3.183
		Barbato M., Zona A., Conte J.P. Finite element response sensitivity analysis
9	2007	using three-field mixed formulation: general theory and application to
		frame structures . International Journal for Numerical Methods in Engineering
		2007, 69(1):114-161. DOI: 10.1002/nme.1759
		Dall'Asta A., Ragni L., Zona A. Analytical model for geometric and material
10	2007	nonlinear analysis of externally prestressed beams. Journal of Engineering
		Mechanics 2007, 133(1):117-121. DOI: 10.1061/(ASCE)0733-
		9399(2007)133:1(117)
		Dall'Asta A., Ragni L., Zona A. Simplified method for failure analysis of
11	2007	concrete beams prestressed with external tendons. <i>Journal of Structural</i>
		<i>Engineering</i> 2007, 135(1):121-131. DOI: 10.1001/(ASCE)0733-
		Panzi C. Zona A. A staal concrete composite hear model with partial
		Ranzi G., Zona A. A steel-concrete composite beam model with partial
12	2007	Engineering Structures 2007 29(11):3026-3041 DOL
		10 1016/i engstruct 2007 02 007
		Zona A Barbato M Conte LP Nonlinear seismic response analysis of steel-
13	2008	concrete composite frames. <i>Journal of Structural Engineering</i> 2008.
		134(6):986-997. DOI: 10.1061/(ASCE)0733-9445(2008)134:6(986)
		Zona A., Ragni L., Dall'Asta A. Finite element formulation for geometric and
		material nonlinear analysis of beams prestressed with external slipping
14	2008	tendons. Finite Elements in Analysis and Design 2008, 44(15):910-919. DOI:
		10.1016/j.finel.2008.06.005
		Zona A., Ragni L., Dall'Asta A. Simplified method for the analysis of
45	2009	externally prestressed steel-concrete composite beams. Journal of
15		Constructional Steel Research 2009, 65(2):308-313. DOI:
		10.1016/j.jcsr.2008.07.015
		Ranzi G., Dall'Asta A., Ragni L., Zona A. A geometric nonlinear model for
16	2010	
	2010	composite beams with partial interaction . Engineering Structures 2010,
	2010	composite beams with partial interaction . Engineering Structures 2010, 32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017
	2010	composite beams with partial interaction. Engineering Structures 2010,32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for design
17	2010	composite beams with partial interaction. Engineering Structures 2010, 32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017 Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for design assessment of continuous steel-concrete composite girders. Journal of
17	2010	composite beams with partial interaction. Engineering Structures 2010,32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for designassessment of continuous steel-concrete composite girders. Journal ofConstructional Steel Research, 2010, 66(7):897-905. DOI:
17	2010	composite beams with partial interaction. Engineering Structures 2010,32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for designassessment of continuous steel-concrete composite girders. Journal ofConstructional Steel Research, 2010, 66(7):897-905. DOI:10.1016/j.jcsr.2010.01.015
17	2010	composite beams with partial interaction. Engineering Structures 2010,32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for designassessment of continuous steel-concrete composite girders. Journal ofConstructional Steel Research, 2010, 66(7):897-905. DOI:10.1016/j.jcsr.2010.01.015Ragni L., Zona A., Dall'Asta A. Analytical expressions for preliminary design
17 18	2010 2010 2011	composite beams with partial interaction. Engineering Structures 2010, 32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for design assessment of continuous steel-concrete composite girders. Journal of Constructional Steel Research, 2010, 66(7):897-905. DOI: 10.1016/j.jcsr.2010.01.015Ragni L., Zona A., Dall'Asta A. Analytical expressions for preliminary design of dissipative bracing systems in steel frames. Journal of Constructional
17 18	2010 2010 2011	composite beams with partial interaction. Engineering Structures 2010, 32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for design assessment of continuous steel-concrete composite girders. Journal of Constructional Steel Research, 2010, 66(7):897-905. DOI: 10.1016/j.jcsr.2010.01.015Ragni L., Zona A., Dall'Asta A. Analytical expressions for preliminary design of dissipative bracing systems in steel frames. Journal of Constructional Steel Research 2011, 67(1):102-113. DOI: 10.1016/j.jcsr.2010.07.006
17	2010 2010 2011	composite beams with partial interaction. Engineering Structures 2010, 32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for design assessment of continuous steel-concrete composite girders. Journal of Constructional Steel Research, 2010, 66(7):897-905. DOI: 10.1016/j.jcsr.2010.01.015Ragni L., Zona A., Dall'Asta A. Analytical expressions for preliminary design of dissipative bracing systems in steel frames. Journal of Constructional Steel Research 2011, 67(1):102-113. DOI: 10.1016/j.jcsr.2010.07.006Zona A., Ranzi G. Finite element models for nonlinear analysis of steel-
17 18 19	2010 2010 2011 2011	composite beams with partial interaction. Engineering Structures 2010, 32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for design assessment of continuous steel-concrete composite girders. Journal of Constructional Steel Research, 2010, 66(7):897-905. DOI: 10.1016/j.jcsr.2010.01.015Ragni L., Zona A., Dall'Asta A. Analytical expressions for preliminary design of dissipative bracing systems in steel frames. Journal of Constructional Steel Research 2011, 67(1):102-113. DOI: 10.1016/j.jcsr.2010.07.006Zona A., Ranzi G. Finite element models for nonlinear analysis of steel- concrete composite beams with partial interaction in combined bending
17 18 19	2010 2010 2011 2011	composite beams with partial interaction. Engineering Structures 2010, 32(5):1384-1396. DOI: 10.1016/j.engstruct.2010.01.017Zona A., Barbato M., Dall'Asta A., Dezi L. Probabilistic analysis for design assessment of continuous steel-concrete composite girders. Journal of Constructional Steel Research, 2010, 66(7):897-905. DOI: 10.1016/j.jcsr.2010.01.015Ragni L., Zona A., Dall'Asta A. Analytical expressions for preliminary design of dissipative bracing systems in steel frames. Journal of Constructional Steel Research 2011, 67(1):102-113. DOI: 10.1016/j.jcsr.2010.07.006Zona A., Ranzi G. Finite element models for nonlinear analysis of steel- concrete composite beams with partial interaction in combined bending and shear. Finite Elements in Analysis and Design 2011, 47(2):98-118. DOI:

	2012	Zona A. Dall'Asta A. Elastoplastic model for steel buckling-restrained
20		braces. Journal of Constructional Steel Research 2012, 68(1):118-125. DOI:
		10.1016/j.jcsr.2011.07.017
		Zona A., Ragni L., Dall'Asta A. Sensitivity-based study of the influence of
21	2012	brace over-strength distributions on the seismic response of steel frames
		with BRBs. Engineering Structures 2012, 37(1):179-192. DOI:
		10.1016/j.engstruct.2011.12.026
		Tahmasebinia F., Ranzi G., Zona A. Beam tests of composite steel-concrete
22	2012	members: a three-dimensional finite element model. International Journal
		of Steel Structures 2012, 12(1):37-45. DOI: 10.1007/S13296-012-1004-3
		l'anmasedinia F., Ranzi G., Zona A. A probabilistic three-dimensional linite
23	2012	Journal of Structural Engineering 2012, 12(3):251, 262, DOI: 10.7158/S11
		107 2012 12 3
		Zona A Barbato M Fragiacomo M Finite element model undating and
		probabilistic analysis of timber-concrete composite beams <i>Journal of</i>
24	2012	Structural Engineering 2012, 138(7):899-910, DOI: 10.1061/(ASCE)ST 1943-
		541X.0000509
		Tahmasebinia F., Ranzi G., Zona A. Probabilistic three-dimensional finite
0.5	0040	element study on composite beams with steel trapezoidal decking.
25	2013	Journal of Constructional Steel Research 2013, 80(1):394-411. DOI:
		10.1016/j.jcsr.2012.10.003
		Barbato M., Zona A., Conte J.P. Probabilistic nonlinear response analysis of
26	2014	steel-concrete composite beams. Journal of Structural Engineering 2014,
		140(1):04013034. DOI: 10.1061/(ASCE)ST.1943-541X.0000803
		Gu Q., Zona A., Peng Y., Dall'Asta A. Effect of buckling-restrained brace
27	2014	model parameters on seismic structural response. Journal of
		Constructional Steel Research 2014, 98(1):100-113. DOI:
		10.1016/j.jcsr.2014.02.009
20	2014	Zona A., Ranzi G. Shear connection slip demand in composite steel-
20	2014	concrete beams with solid slabs. <i>Journal of Constructional Steel Research</i>
		Zona A. Dogoć H. Looni C. Doll'Asta A. Ductile design of innovative steel
29	2016	and concrete hybrid counled walls Journal of Constructional Steel Research
25	2010	2016 117(1)·204-213 DOI: 10 1016/j jcsr 2015 10 017
		Dall'Asta A., Ragni L., Zona A., Nardini L., Salvatore W. Design and
		experimental analysis of an externally prestressed steel and concrete
30	2016	footbridge equipped with vibration mitigation devices , <i>Journal of Bridge</i>
		Engineering 2016, 21(8):C5015001. DOI: 10.1061/(ASCE)BE.1943-
		5592.0000842
	2017	Zona A., Leoni G., Dall'Asta A. Influence of shear connection distributions
21		on the behavior of continuous steel-concrete composite beams. The Open
51		Civil Engineering Journal 2017, 11(Suppl-1, M7) 384-395. DOI:
		10.2174/1874149501711010384
	2017	Dall'Asta A., Leoni G., Morelli F., Salvatore W., Zona A. An innovative seismic-
32		resistant steel frame with reinforced concrete infill walls. Engineering
		<i>Structures</i> 2017, 141(1):144-158. DOI: 10.1016/j.engstruct.2017.03.019
	2018	Zona A., Tassotti L., Leoni G., Dall'Asta A. Nonlinear seismic response
33		analysis of an innovative steel and concrete hybrid coupled wall system.
		Journal of Structural Engineering 2018, 144(7):04018082. DOI:
		Das R Zona A Vandoren R Dagaá H Ontimizing the coupling ratio in the
34	2018	saismic design of HCW systems with shear dissipative links <i>lowrad of</i>
		Constructional Steel Research 2018 147(1):393-407 DOL
		10 1016/i jcsr 2018 04 026
	2018	Scozzese F., Terracciano G., Zona A., Della Corte G., Dall'Asta A., Landolfo R
35		Analysis of seismic non-structural damage in single-storey industrial
		steel buildings. Soil Dynamics and Earthquake Engineering 2018. 114(1):505-
		519. DOI: 10.1016/j.soildyn.2018.07.047

36	2018	Franchin P., Ragni L., Rota M., Zona A. Modelling uncertainties of Italian code-conforming structures for the purpose of seismic response analysis. <i>Journal of Earthquake Engineering</i> 2018, 22(S2):28-53. DOI: 10.1080/13632469.2018.1527262
37	2018	Scozzese F., Terracciano G., Zona A., Della Corte G., Dall'Asta A., Landolfo R. Modelling and seismic response analysis of Italian code-conforming single-storey steel buildings . <i>Journal of Earthquake Engineering</i> 2018, 22(S2):168-197. DOI: 10.1080/13632469.2018.1528913
38	2019	Dall'Asta A., Leoni G., Meschini A., Petrucci E., Zona A. Integrated approach for seismic vulnerability analysis of historic massive defensive structures . <i>Journal of Cultural Heritage</i> 2019, 35(1):86-98. DOI: 10.1016/j.culher.2018.07.004

Titoli¹

Awards and achievements

- 2018 Outstanding Contribution in Reviewing, Journal of Constructional Steel Research, Elsevier;
- Recipient of the FFARB 2017 for Associate Professors (grant for fundamental research);
- Full score (100%) in the VQR-ANVUR 2011-2014 Italian National Evaluation of the quality of the research products (2017);
- 2017 Outstanding Contribution in Reviewing, Engineering Structures, Elsevier;
- 2017 Outstanding Contribution in Reviewing, Construction and Building Materials, Elsevier;
- Italian National Scientific Qualification, with unanimous consensus of the commission, to the role of Full Professor of Structural Engineering (March 2017);
- Nomination for the 2015 Best Associate Editor Award from the American Society of Civil Engineers;
- 2014 Outstanding Contribution in Reviewing, Engineering Structures, Elsevier;
- Italian National Scientific Qualification, with unanimous consensus of the commission, to the role of Associate Professor of Structural Engineering (December 2013);
- Full score (100%) in the VQR-ANVUR 2004-2010 Italian National Evaluation of the quality of the research products (2013);
- Recipient of the one-off incentive for research, teaching and institutional activities at the University of Camerino for the year 2012, according to art. 29 clause 19 of L. 240/2010;
- First Rank in the Elsevier TOP25 ScienceDirect Hottest Papers for the most downloaded paper during year 2012 published in the journal Finite Elements in Analysis and Design "Finite element models for nonlinear analysis of steel-concrete composite beams with partial interaction in combined bending and shear" 2011, 47(2):98-118 (11900 downloads according to Elsevier);
- 2009 Moisseiff Award from the American Society of Civil Engineers (ASCE) for the paper published in the ASCE Journal of Structural Engineering "Nonlinear seismic response analysis of steel-concrete composite frames" 2008, 134(6):986-997;
- 2002 Young Researchers Award from the University of Ancona for the results achieved during his doctoral studies;
- 2000 Riccardo Lombardi Award in Civil Engineering for the results achieved in his Graduation (Laurea) Thesis.

Main research grants

• (EU) European research projects selected for funding based on calls that involved competitive peer review:

- (EU3) European Commission RFCS (2014-2015) "STEEL-EARTH: Steel-based applications in earthquake-prone areas" (Scientific person in charge of the UNICAM research unit).
- (EU2) European Commission RFCS (2010-2013) "INNOHYCO: Innovative Hybrid and Composite Steel-Concrete Structural Solution in Seismic Areas" (project coordination and UNICAM research unit);
- (EU1) European Commission RFCS (2007-2010) "PRECASTEEL: Prefabricated Steel Structures for Low-Rise Building in Seismic Areas" (component of the UNICAM research unit);
- (IT) Italian research projects selected for funding based on calls that involved competitive peer review:
- (IT3) Italian Ministry of University and Research PRIN 2008 "Effects of nonsynchronism on seismic bridge response including local site amplification" (component of the UNICAM research unit).
- (IT2) Italian Ministry of University and Research PRIN 2002 "Advanced design and system performance control of steel-concrete composite frames in earthquake-prone areas" (component of the UNIAN research unit);
- (IT1) Italian Ministry of University and Research PRIN 1997 "Safety of high performance concrete structures" (beneficiary of a research contract);
- (ITNC) Italian research projects not based on competitive selection:
- (ITNC3) RELUIS-RINTC National Research Project 2015-2018 (Italian University Network of Seismic Engineering Laboratories and Italian Civil Protection Agency), "A joint ReLUIS-EUCENTRE research project to assess the (implicit) seismic risk of code conforming structures in Italy", (component of the UNICAM research unit for steel structures).
- (ITNC2) RELUIS 2 National Research Project 2010-2013 (Italian University Network of Seismic Engineering Laboratories and Italian Civil Protection Agency), "Manual for the design of dissipative devices: existing RC buildings with high-damping rubber devices and buckling-restrained braces", (component of the UNICAM research unit);
- (ITNC1) RELUIS National Research Project 2005-2008 (Italian University Network of Seismic Engineering Laboratories and Italian Civil Protection Agency), "Control of the dynamic response of existing reinforced concrete frames by means of high-damping rubber devices and buckling-restrained braces" (component of the UNICAM research unit).

Editorial activities

- Associate Editor, ASCE Journal of Bridge Engineering (from October 2010 to present), directly supporting the Editor in Chief in handling the review process, assigning reviewers and making final decisions acceptance or rejection (119 manuscripts handled up to date);
- Co-Editor with Professors Alan O'Connor (Trinity College Dublin, Ireland) and Kent Harries (University of Pittsburgh, USA) of the ASCE Journal of Bridge Engineering December 2013 special section "Eurocodes and their implications for bridge design";
- Member of the Editorial Board, The Scientific World Journal (from 2013 to 2016);
- Member of the Editorial Board, Mathematical Problems in Engineering (from 2014 to 2015);
- Member of the Editorial Board, ISRN Civil Engineering (from 2012 to 2014);
- Reviewer for many international journals and conferences (163 manuscripts reviewed up to date, four certificates of outstanding contribution in reviewing up to date).

Institutional duties

- Rector delegate for the restoration and reconstruction of the university structures and infrastructures damaged after the 2016 Central Italy earthquakes (from November 2017 to present);
- Elected representative of the associate professors of the University of Camerino in the Governance Assembly (from November 2017 for a five-year office);

- Member designated in the Library Commission of the School of Architecture and Design, University of Camerino (from January 2012 to present);
- Member designated in the Teacher-Student Commission of the School of Architecture and Design, University of Camerino (from January 2012 to present).

Professional services

- Scientific Director of the Laboratory of Structural Monitoring and Diagnostics, School of Architecture and Design, University of Camerino (from 2014 to present);
- Scientific Responsible of university consulting services involving monitoring and safety assessment of buildings and bridges;
- Volunteer for damage evaluation of existing buildings after the L'Aquila 2009 and Central Italy 2016 earthquakes (Italian Civil Protection Agency).

Teaching activities

- Undergraduate classes at the School of Architecture and Design: "Design of reinforced concrete structures and steel structures" since 2005 and "Strength of Materials and Structural Forms in Industrial Design" since 2014;
- Graduate class at the School of Architecture and Design: "Structural problems of heritage buildings" since 2010;
- Graduate class at the Master Europroject, University of Rome La Sapienza; "Design of Steel Structures to Eurocode 3 and Eurocode 8", since 2015;
- Member of the Collegium of the Doctoral course in Architecture, Design and Urban Planning, University of Camerino, since 2017;
- Member of the Collegium of the Doctoral course in Structural and Infrastructural Engineering, Marche Polytechnic University (from 2006 to 2013);
- Invited seminars at University of California at San Diego (USA), Marche Polytechnic University (Italy), The University of Sydney (Australia), EUCENTRE (Italy);
- Teacher in professional courses organized by Fondazione Promozione Acciaio involving the seismic design of steel structures.

data

06/05/2019