

Curriculum



Nome Name:	Bruno
Cognome Surname:	Briseghella

ORCID:	n.d.
Scopus Author ID:	n.d.
WOS Author ID:	n.d.
Sito WEB WEB site:	n.d.

POSIZIONE PROFESSIONALE ATTUALE / CURRENT PROFESSIONAL POSITION:

Posizione attuale Current position:	In servizio
Qualifica Qualification:	Professore Ordinario
Ateneo/Ente/Azienda University/Institution/Company:	Università degli Studi di MODENA e REGGIO EMILIA
Nazione Ateneo/Ente/Azienda University/Institution/Company Country:	ITA
Anno inizio Start Year:	2022
Anno fine End Year:	n.d.

PRECEDENTI ESPERIENZE LAVORATIVE (ULTIMI 10 ANNI) / PREVIOUS WORK EXPERIENCE (LAST 10 YEARS):

Qualifica Qualification:	Professore Ordinario
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Ateneo/Ente/Azienda University/Institution/Company	Fuzhou University
Posizione Sede Lavorativi (indicare Nazione e Città) Workplace Location (specify Country and City):	Fuzhou, Fujian, Cina
Anno inizio Start Year:	2012
Anno fine End Year:	n.d.
Descrizione Description:	

LINGUE / LANGUAGES:

Lingua Language:	Inglese
Scrittura Writing:	C2
Comunicazione Communication:	C2

AREA/SETTORE SCIENTIFICO-DISCIPLINARE / AREA/SECTOR SCIENTIFIC-DISCIPLINARY

Area scientifico-disciplinare Area scientific-disciplinary:	Ingegneria civile e Architettura
Area scientifico-disciplinare codice Area scientific-disciplinary code:	08
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-Tecnica delle costruzioni
Settore scientifico-disciplinare codice Sector scientific-disciplinary code:	-CEAR-07/A

DESCRIZIONE DEI PRINCIPALI RISULTATI SCIENTIFICI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 PUBBLICAZIONI) / DESCRIPTION OF THE MAIN SCIENTIFIC RESULTS ACHIEVED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 PUBLICATIONS):

Descrizione Description:	<i>Prof. Briseghella has provided contributions in the following fields: (1) Sustainable and intelligent design and maintenance of bridges; (2) Research and development of Ultra-High-Performance Concrete (UHPC); (3) Design theory and application of new composite structures; (4) Development and application of new green and low-carbon civil engineering materials. (1) Sustainable and intelligent design and maintenance of bridges. This includes</i>
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	<p>contributions on: (i) research on new jointless bridges; (ii) key technologies and applications for enhancing the disaster resilience of long-span bridges; (iii) intelligent maintenance of large-scale bridge structures. (2) Research and development of Ultra-High-Performance Concrete (UHPC). This includes contributions on: (i) advancements in the engineering application of UHPC; (ii) developing the relationships between multi-scale, multi-level microstructures, and the performance of UHPC; (iii) UHPC design methods based on artificial intelligence algorithms; (iv) research on fiber orientation in UHPC. (3) Design theory and application of new composite structure. This includes contributions on: (i) innovative theories of Concrete Filled Steel Tubular (CFST) composite structures, especially for application in long-span arch bridges; (ii) design theories for hybrid steel-concrete composite structures; and (iii) design theories for complex joints of CFST truss structures. (4) Development and application of new green and low-carbon civil engineering materials. This includes contributions on: (i) research and application technology of high-performance recycled aggregate concrete; (ii) key technologies and applications of low-carbon construction projects.</p>
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PUBBLICAZIONI / PUBLICATIONS:

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Pelle, A., Briseghella, B., Bergami, A.V., Fiorentino, G., Giaccu, G.F., Lavorato, D., Quaranta, G., Rasulo, A., Nuti, C. (2022). Time-dependent assessment of the cyclic response of reinforced concrete bridge columns. <i>Structure Concrete</i> , 2022, 23(1), 81-103.

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Fu, R., Briseghella, B., Xue, J., Aloisio, A., Lin, Y., Nuti, C. (2022). Experimental and finite element analyses of laterally loaded RC piles with pre-hole filled by damping material in IABs. <i>Engineering Structures</i> , 272, 114991.

Anno della pubblicazione Year of publication:	2021
Citazione Citation:	Fiorentino, G., Cengiz, C., De Luca, F., G. Mylonakis, Karamitros, D., Dietz, M., Dihoru. L., Lavorato, D., Briseghella, B., Isakovic, T., Vrettos, C., Topa Gomes, A., Sextos, A., Nuti, C. (2021). Integral abutment bridges: Investigation of seismic soil-structure interaction effects by shaking table testing. <i>Earthquake Engineering and Structural Dynamics</i> , 50 (6).

Anno della pubblicazione	2021
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Year of publication:	
Citazione Citation:	Sciarretta, F., Fava, S., Francini, M., Ponticelli, L., Caciolai, M., Briseghella, B., Nuti, C. (2021). Ultra-high-performance concrete (UHPC) with polypropylene (pp) and steel fibres: investigation on the high temperature behaviour. <i>Construction and Building Materials</i> , 304, 124608.

Anno della pubblicazione Year of publication:	2020
Citazione Citation:	Lavorato, D., Fiorentino, G., Pelle, A., Rasulo, A., Bergami, A. V., Briseghella, B., & Nuti, C. (2020). A corrosion model for the interpretation of cyclic behavior of reinforced concrete sections. <i>Structural Concrete</i> , 21(5), 1732-1746.

Anno della pubblicazione Year of publication:	2018
Citazione Citation:	Pellicciari, M., Marano, G. C., Cuoghi, T., Briseghella, B., Lavorato, D., & Tarantino, A. M. (2018). Parameter identification of degrading and pinched hysteretic systems using a modified Bouc-Wen model. <i>Structure and Infrastructure Engineering</i> , 14(12), 1573-1585.

Anno della pubblicazione Year of publication:	2015
Citazione Citation:	Huang, W., Fenu, L., Chen, B., & Briseghella, B. (2015). Experimental study on K-joints of concrete-filled steel tubular truss structures. <i>Journal of Constructional Steel Research</i> , 107, 182-193.

Anno della pubblicazione Year of publication:	2024
Citazione Citation:	Contento, A., Aloisio, A., Xue, J., He, J., & Briseghella, B. (2024). Ultra-high performance concrete beam-to-beam connections in continuous bridges: Experimental full-scale tests, FE analyses and design. <i>Engineering Structures</i> , 316, 118594

Anno della pubblicazione Year of publication:	2025
Citazione Citation:	Xue, J., Mao, S., Xu, W., Aloisio, A., Yang, Z., Contento, A., Briseghella, B. (2025). Experimental characterization of prefabricated link slabs with randomly oriented and oriented-fibres UHPC under multiple geometric configurations. <i>Engineering Structures</i> , 323, 119253

Anno della pubblicazione Year of publication:	2022
Citazione Citation:	Contento, A., Aloisio, A., Xue, J., Quaranta, G., Briseghella, B., Gardoni, P. (2022). Probabilistic axial capacity model for concrete-filled steel tubes accounting for load eccentricity and

DESCRIZIONE DEI PRINCIPALI PROGETTI DI RICERCA E PREMI CONSEGUITI NEGLI ULTIMI 10 ANNI (CON ANNESSO ELENCO DI MASSIMO 10 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PRINCIPAL INVESTIGATOR O COORDINATORE LOCALE DI PROGETTI DI RICERCA COMPETITIVI NAZIONALI O INTERNAZIONALI, SIGNIFICATIVI PREMI CONSEGUITI PER LA PROPRIA ATTIVITÀ DI RICERCA)/ DESCRIPTION OF THE MAIN RESEARCH PROJECTS AND AWARDS AWARDED IN THE LAST 10 YEARS (WITH ATTACHED LIST OF MAXIMUM 10 ACHIEVEMENTS, INCLUDING, FOR EXAMPLE, PRINCIPAL INVESTIGATOR OR LOCAL COORDINATOR OF NATIONAL OR INTERNATIONAL COMPETITIVE RESEARCH PROJECTS, SIGNIFICANT AWARDS AWARDED FOR YOUR RESEARCH ACTIVITY):

Descrizione Description:	
Descrizione Description:	TEAM LEADER - Title: "POUNDBACK2 - Pounding on Backwall-backfill systems". Client: European Union, Horizon2020, Grant No. 101058684, ERIES: Engineering Research Infrastructures for European Synergies (2022-2026) project - Funds: 80.000 Euro from 2022-11 to date
Descrizione Description:	TEAM LEADER - Title: "SERENA - Seismic Response of Novel Integral Abutment-Bridges". Client: European Union, Horizon2020, Grant No. N. 730900, SERA TA project - Funds: 80.000 Euro from 2017-05 to 2020-04
Descrizione Description:	PRINCIPAL INVESTIGATOR - Title: "Research on Mechanism and Calculation Method of an Innovative Pile Isolation System for Jointless Bridges" - Client: National Science Foundation (NSF) - Funds: 850,000 RMB from 01-08-2018 to 2021
Descrizione Description:	PRINCIPAL INVESTIGATOR - Title: "Sustainable and Innovative Bridge Engineering" - Client: National Found - Funds: 500,000 RMB from 01-06-2016 to date
Descrizione Description:	PRINCIPAL INVESTIGATOR - Title: "Integral abutment bridge (IAB) concept applied to the retrofitting of existing bridges" - Client: State Administration of Foreign Experts (SAFEA) - Funds: 1,500,000 RMB - Project numbers: 831107 (TM2012-27) from 15-05-2015 to date

Descrizione Description:	PRINCIPAL INVESTIGATOR - Title: "Integral abutment bridge (IAB) concept applied to the retrofitting of existing bridges" - Client: State Administration of Foreign Experts (SAFEA) - Funds: 1,500,000 RMB - Project numbers: 828982 (TM2012-27) from 14-05-2013 to 14-05-2015
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Descrizione Description:	2023 International Science and Technology Cooperation Award of the People's Republic of China
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Descrizione Description:	2022 Fujian International Science and Technology Cooperation Award
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Descrizione Description:	"10 Foreign Teacher of the year" in China Award, May 2018
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Descrizione Description:	Most Cited Article 2021-2022 from "Earthquake Engineering & Structural Dynamics" Journal for the paper: Fiorentino, G., Cengiz, C., De Luca, F., Mylonakis, G., Karamitros, D., Dietz, M., Dihoru, L., Lavorato, D., Briseghella, B., ... & Nuti, C. (2021). Integral abutment bridges: investigation of seismic soil-structure interaction effects by shaking table testing. Earthquake Engineering & Structural Dynamics, 50(6), 1517-1538.
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SVILUPPO DI RETI E RELAZIONI SCIENTIFICHE NAZIONALI E INTERNAZIONALI (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, PARTECIPAZIONE O ORGANIZZAZIONE DI CONVEGNI NAZIONALI E INTERNAZIONALI; CONTRIBUTI A CONSORZI DI RICERCA) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF DEVELOPMENT OF NATIONAL AND INTERNATIONAL SCIENTIFIC NETWORKS AND RELATIONS (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, PARTICIPATION OR ORGANIZATION OF NATIONAL AND INTERNATIONAL CONFERENCES; CONTRIBUTIONS TO RESEARCH CONSORTIA):

Descrizione Description:	
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Descrizione Description:	6th International Symposium on Long-term Performance of Engineering Structures, November 2024, Fuzhou (China)
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Descrizione Description:	Chair of the Organizing Committee "10th International Conference on Arch Bridges",
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	October 2023, Fuzhou (China)
Descrizione Description:	Co-Chair of the 3rd International Symposium of Jointless and Sustainable Bridges (ISJSB2022), November 2022, Fuzhou (China)
Descrizione Description:	First South Asia Conference on Earthquake Engineering, February 2019, Karachi (Pakistan), Member of the Steering Committee
Descrizione Description:	2nd International Workshop on "Integral/Jointless Bridges", May 2015, Fuzhou (China). Chair of the Organizing Committee

DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI DI SUPPORTO ALLA COMUNITÀ SCIENTIFICA (CON ANNESSO ELENCO DI MASSIMO 5 RISULTATI, INCLUDENDO, A TITOLO DI ESEMPIO, RESPONSABILITÀ DI DIREZIONE DI COMITATI EDITORIALI; INCARICHI DI VALUTAZIONE DELLA RICERCA PRESSO ISTITUZIONI NAZIONALI O INTERNAZIONALI; RESPONSABILITÀ ISTITUZIONALI ALL'INTERNO DELL'ISTITUZIONE DI APPARTENENZA O DI ALTRE ISTITUZIONI) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF SUPPORT TO THE SCIENTIFIC COMMUNITY (WITH ATTACHED LIST OF MAXIMUM 5 RESULTS, INCLUDING, FOR EXAMPLE, MANAGEMENT RESPONSIBILITIES OF EDITORIAL COMMITTEES; RESEARCH EVALUATION ROLES AT NATIONAL OR INTERNATIONAL INSTITUTIONS; INSTITUTIONAL RESPONSIBILITIES WITHIN THE INSTITUTION OF AFFILIATION OR OTHER INSTITUTIONS):

Descrizione Description:	
Descrizione Description:	2015-2024 Dean of the College of Civil Engineering, Fuzhou University (China)
Descrizione Description:	2016-2019 Founding Director of the National Platform "Joint International Research Center of Bridge Technology Innovation and Risk Mitigation" supported by Ministry of Science and Technology of China (MOST)
Descrizione Description:	2012-2015 Funding Director of the "Sustainable and Innovative Engineering Research Center"

Descrizione Description:	Member of Editorial Board of "the Proceedings of the Institution of Civil Engineers - Structures and Buildings" (Publisher: Thomas Telford Services Ltd.; ISSN 09650911, 17517702)
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Descrizione Description:	Member of Editorial Board of "IBRACON Structures and Materials Journal" (Publisher: Brazilian Concrete Institute; ISSN 1983-4195)
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DESCRIZIONE DEI PRINCIPALI RISULTATI CONSEGUITI NEGLI ULTIMI 10 ANNI IN TERMINI VALORIZZAZIONE DELLE CONOSCENZE (CON ANNESSO ELENCO DI MASSIMO 3 RISULTATI, RELATIVI ALLA PARTECIPAZIONE DEL CANDIDATO ALLE ATTIVITÀ DI VALORIZZAZIONE DELLE CONOSCENZE) / DESCRIPTION OF THE MAIN RESULTS ACHIEVED IN THE LAST 10 YEARS IN TERMS OF KNOWLEDGE VALORIZATION (WITH ATTACHED LIST OF MAXIMUM 3 RESULTS, RELATING TO THE CANDIDATE'S PARTICIPATION IN KNOWLEDGE VALORIZATION ACTIVITIES):

Descrizione Description:	<i>The comprehensive theory on monolithic structures and their aspects related to soil-structure interaction he developed found practical application in the design of the longest integral abutment bridge in the world (with a length of 400m, Isola della Scala Bridge, Italy) and several jointless bridges in China. Moreover, his research on reliable hybrid bridges, primarily focused on understanding and modelling the bond in concrete-filled steel tube (CFST) structures, was applied for the design of several bridges in China and South-East Asia, including the longest CFST arch bridge in Vietnam.</i>
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Descrizione Description:	2015 - Collaboration with "China Road and Bridge Construction" (CRBC) for developing an advanced computational frameworks for long bridges
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Descrizione Description:	2022 - Collaboration with Maffei Engineering to implement an optimal design methodology for steel structures
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Descrizione Description:	2023 - Collaboration with FABRE Consortium for the assessment of existing bridges
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Informazioni aggiornate alla data di candidatura 07-05-2025

Bruno Briseghella

Il presente curriculum costituisce allegato e parte integrante dell'incarico sottoscritto

