

PERSONAL INFORMATION

ROBERTO RUGGIERO

 roberto.ruggiero@unicam.it

POSITION

Researcher (Rtd_B) ICAR 12 - Tecnologia dell'Architettura
University of Camerino-Scuola di Architettura e Design

WORK EXPERIENCE

From 2021-present

Assistant Professor of Urban Planning -RTdB of Technology of Architecture (08C1/Icar 12)

University of Camerino -School of Architecture and Design

Research, teaching, students' supervision and evaluation and other institutional activities

from 2021: Prototype Laboratory Delegate-School of Architecture and Design-UNICAM;

from 2021: Member of the Scientific Committee of the Second Level Master in "Circular Architecture" of the University of Camerino

From 2017-present

Assistant Professor of Urban Planning -RTdA of Technology of Architecture (08C1/Icar 12)

University of Camerino -School of Architecture and Design

Research, teaching, students' supervision and evaluation and other institutional activities

from 2018: National Scientific Qualification for the position of Associate Professor - 08/C1

from 2017: Stage and Placement Delegate-School of Architecture and Design-UNICAM

from 2019: Member of the teaching staff of the PhD International School of Advances Studies Unicom PhD in Architecture, Design. Urban planning - Curriculum in Innovation Design.

From 2009-2017

Adjunct Professor in Technology of Architecture (08C1/Icar 12)

University of Camerino -School of Architecture and Design and Politecnica delle Marche

From 1990-2017

Freelances in the field of Architecture and Design

Professional assignments in the field of urban planning and design: Local Plan; urban regeneration plans, landscape plans

EDUCATION AND TRAINING

2003-2006 **PhD, Technology of Architecture and Environment, XIII Cycle**
"Federico II" University of Naples, Naples, Italy

2008 **Annual research grant**
"Federico II" University of Naples, Naples, Italy
Research title: "Innovative uses of leather in construction"

2011 **Scholarship**
University of Camerino -School of Architecture and Design
Research title: "Design of an open building system with prefabricated reinforced concrete elements"

2011 **Five-year degree in Architecture**
"Federico II" University of Naples, Naples, Italy

RESEARCH EXPERIENCE

Research Projects International

- From march 2022 **Erasmus+2021-1-IT02-KA220-HEAD-000032223**
"Complex Participatory Reconstruction of Urban Structures" - Cli-CC.HE
Role: Project Manager for UNICAM. Total Budget: € 57.170 (budget UNICAM) on total € 392.790
The proposing group is composed of: Donau Universitat (Krems, Austria) - Lead Partner, University of Camerino, Slovenska Technicka Univerzita (Bratislava, Slovakia), Budapesti Muszaki es Gazdasagtudományi Egyetem (Budapest, Hungary), Masarykova Univerzita (Brno, Czech Republic), Università degli Studi di Roma La Sapienza, Ceske Technicke University (Prague, Czech Republic), Institute of Theoretical and Applied Mechanics (Prague, Czech Republic). The objective of the project is to transfer the results of research in the field of post-earthquake reconstruction into teaching. The project is being evaluated by the European Commission (publication of results: February 2022).
- From 2018 to 2021 **POR Marche FSE 2014/2020 - Application EUREKA for phd grants**
Project title: Building 4.0. Digital building processes for the automated construction site
Role: Scientific coordinator. Total Budget: € 26.000,00
The project is focused on an automated production system for the production and assembly of lightweight wooden building systems in emergency housing contexts, transferring production logics of Industry 4.0 in the production of components and systems for construction in post-earthquake reconstruction contexts
- 2021 **Partnership Unicam/Keyo University**
"Digital fabrication and community participation"
Role: Scientific coordinator
The research goal is to develop innovative spatial devices and building systems of a temporary nature to serve communities in housing emergency. The research refers to principles of participatory design and digital construction and off-site, in implementation of objectives of social, environmental and economic sustainability. The research also aims to develop (expanding the field of application) and decline (in Western contexts) an innovative wood building system developed by Prof. Kobayashi based on an innovative reinterpretation of traditional Japanese wood-wood connection systems.

From January 2018
to June 2021

FAR 2018 (D.R. n. 11393 del 10/07/2018), University of Camerino
“CCUHRE-Climate Change and Urban Health Resilience” (01/02/2019–30/06/2021)

Role: Project manager for unit research nr. 4. Budget: € 10.000,00

CCUHRE aims to define a transdisciplinary methodology to evaluate the effects that climate change produces on urban health, to direct policies for adaptation/mitigation through the contribution of many scientific disciplines, interaction with municipalities and local health agencies, and the involvement of local communities. This will be done with the support of new IoT (Internet of Things) technologies and mobile crowdsensing techniques in order to expand knowledge to measure/assess the effects of climate change on health, to involve communities in designing shared plans for development, to empower them when dealing with urban health and well-being, and to support public administrations in making decisions.

MAIN PUBLICATIONS

- 2021 Perriccioli, M. Ruggiero R., Salka M., (2021), Ecologia e tecnologie digitali. L'architettura alla piccola scala come luogo di connessioni, AGATHON International Journal of Architecture, Art and Design n. 10/21, ISSN print 2464-9309, ISSN on line 2532-683X, p. 59-72
- 2021 Ruggiero R., (2021) La temporaneità come strategia di sviluppo per la portualità minore. In: Doti G. (a cura di), “2021. Porti minori. Un patrimonio da riconquistare nel medio Adriatico”, Roma: Campisano Editore, ISBN:9788885795792, p. 99-110.
- 2021 Ruggiero R.. (2021), Kobayashi H., Cognoli R., Kaito S., Digital innovation for the post-earthquake “second emergency phase” (SEP). Research experience in Central Italy, International Journal of Disaster Risk Reduction 61 (2021), Elsevier, ISSN:2212-4209, p. 1-13
- 2021 Ruggiero R. (2021), Learning architecture in the digital age. An advanced training experience for tomorrow’s architect, “TECHNE. Journal of Technology for Architecture and environment”, special issue 2: future scenarios, ISSN on line: 2239-0243
- 2020 Cognoli R., Ruggiero R. (2020), Integrazione GIS/BIM per lo sviluppo sostenibile dell’ambiente urbano. IN: Brownlee T., Camaioni C., Pellegrino P. (a cura di), “Emergenza clima e qualità della vita nelle città”, Milano: Franco Angeli, ISBN 8835109078
- 2020 Cognoli R., Ruggiero R. (2020), Digito ergo aedifico. Digital chains for advanced building processes. In: Perriccioli M., Rigillo M., Russo Ermolli S., Tucci, F. (a cura di), “Design in the digital age. Technology, nature, culture”, Sant’Arcangelo di Romagna: Maggioli Editore, pp. 271-275, ISBN 978-88-916-4327-8
- 2020 Bianchi R., Ruggiero R. (2020), (Ri) costruzione post-sisma. nuovi modelli dell’abitare. In: Pignatti L. (a cura di), “Territori Fragili”, Roma: Gangemi Editore Spa, pp. 755-760, ISBN 978-88-492-3668-2
- 2020 Ruggiero R. et Al. (2020), Arrival city. Dispositivo generativo per alloggi temporanei personalizzati. In: Eugenio Rbizzani, Eliana Cangelli, Laura Daglio, Elisabetta Ginelli, Federica Ottone, Donatella Radogna, “Re-live 2019. Progettare in vivo la rigenerazione urbana”, Maggioli, Sant’Arcangelo di Romagna, pp. 155-162, ISBN 978-88-916-3877-9
- 2020 Perriccioli M., Ruggiero R. (2020) Innovazione digitale per nuove forme dell’abitare, in Calderoni A. Di Palma, B. Nitti, A. Oliva, G. “Il progetto di architettura come intersezione di saperi. Per una nozione rinnovata di patrimonio”. Book of abstract del VIII Forum ProArch, Società Scientifica nazionale dei docenti di Progettazione Architettonica, SSD ICAR 14, 15 e 16, Università degli Studi di Napoli “Federico II”, Università degli Studi della Campania “Luigi Vanvitelli”, Politecnico di Bari. Napoli, 21-23 novembre 2019. ISBN 978-88-909054-8-3

- 2019 Ruggiero R. (2019), Progetto esecutivo e processi di costruzione digitale. Una sperimentazione costruttiva tra Italia e Giappone, "TECHNE", vol. 18/2019, ISSN on line: 2239-0243

MAIN CONFERENCES AND SEMINARS

June 2021

Promoter and organizer of a series of conferences on the digital/circular relationship in the field of building production. Among them: Voxel Quarantine Cabin. Valldaura Labs. Investigating Architectural Self-Sufficiency in Barcelona's Collserola Forest. Speaker: Michael Salka (IAAC BARcelona) - SAAD of Ascoli Piceno, 24.05.2021; Matter site. Material (data) intelligence. Speakers: Roberto Vargas & Matthew Gordon (IAAC BARcelona) - SAAD of Ascoli Piceno, 25.06.2021.

September 2019

Promoter and scientific responsible of the international event Make it digital. The event includes an international scientific conference called Participatory architecture with digital fabrication and a workshop called Innovative temporary pavillions with digital fabrication. Location: School of Architecture and Design "Eduardo Vittoria" of Ascoli Piceno, 26/27 March 2019.
The conference compares international experiences in the field of digital fabrication associated with the field of Architecture and Participatory Construction. The conference sees the participation of leading international figures in the field of digital fabrication applied to contexts of emergency housing. During the workshop two experimental wooden pavillions are built using digital fabrication techniques in the field of lightweight wooden construction, the result of a joint research project between SAAD of Ascoli Piceno (of which he is the scientific responsible), Keio University (resp. Scientific prof. Hiroto Kobayashi) and Kokushikan University (resp. Scientific prof. Akira Suzuki) of Tokyo. Among the outcomes of this activity the publication: Ruggiero R. (2019), Executive design and digital construction processes. A constructive experimentation between Italy and Japan, "TECHNE", vol. 18/2019, ISSN on line: 2239-0243, expected publication: September 2019.

December 2019

Member of the scientific coordination (resp. Prof. Rosalba D'Onofrio) and speaker at the international conference Climate change and quality of life, SAAD of Ascoli Piceno, 18.12.2019. Title of the contribution: From GIS to BIM for Sustainable Urban Planning. As part of the same event and the related exhibition entitled Climate change and Urban Health Resilience, he presents the poster entitled From GIS and BIM straight to COM. Practical application in the urban area of Porto. The oral contribution and the poster present the outcomes of the research work carried out within the CCHURE research on the development of a procedure based on the integration of GIS, 3D GIS and BIM tools to highlight and analyze the relationships between climate change effects, built environment, environmental comfort, quality of life and health at the scale of the neighborhood. Further outcome of this work is the publication Cognoli R., Ruggiero R. (2020), GIS/BIM integration for the sustainable development of the urban environment. In: Brownlee T., Camaioni C., Pellegrino P. (eds.), "Climate emergency and quality of life in cities", Milan: Franco Angeli, ISBN 8835109078.

March 2019

As coordinator of the design team of SAAD of Ascoli Piceno, participates - by invitation - to the event RE-LIVE 2019 held at the Fiera Milano Rho on 14 and 15 March 2019. During the event, organized by MADEExpo and SITdA (Italian Society of Architectural Technology) and characterized by the presence of international guests and regional and national institutions, the proposals for the regeneration of the Via Medici del Vascello area in Milan were discussed with the 16 Design Teams coming from all the 17 Schools of Architecture in Italy. The projects were subsequently included in an exhibition open to the public of MADEexpo visitors. Among the outcomes of this activity, the publication of the project as well as a related essay currently in press: Ruggiero R. et Al. (2019), Arrival city. Generative device for personalized temporary housing. In: 'Re-live 2019. Designing in vivo urban regeneration', Maggioli, expected publication: October 2019.

- June 2019** Speaker at the Xjtlu International Conference Architecture. Across Boundaries organized by Xi'an Jiaotong-Liverpool University, Suzhou, China 19-21 June 2019. Among the outcomes of this activity the publication in press: Bianchi R., Ruggiero R. (2019) Re-thinking Re-construction. New design strategies for the reconstruction after natural disasters. A local research experience for a global topic, in "Architecture across boundaries", 2019 Xjtlu (China) international conference proceedings, publication due: October 2019.
- March 2019** Promoter, organizer and member of the scientific committee of the conference Small scale architecture through digital fabrication. Location: University of Naples Federico II, March 25, 2019. The conference compares international experiences in the field of digital fabrication associated with that of Small Architecture..
- March 2019** Promoter, organizer and member of the scientific committee of the international event AAT Amandola, Ascoli, Tokyo. Italy meets Japan, Fondazione Carisap, Amandola (FE) March 21/23, 2019. In this context he is chair in the international conference Temporary /contemporary: Architecture: adaptive and spontaneous strategies towards an unpredictable future. The conference compares international experiences in the field of digital fabrication associated with that of emergency housing and digital technologies at the service of simplified building systems. After the conference, an international design workshop in which highly innovative temporary wooden structures are built through a process of participation of the local community. The event is the subject of the publication edited by anthropologist Matteo Meschiarì (2019), Disabilitare in Appennino, in Doppiozero n. 4/2019, ISSN 2239-6004.
- November 2019** Speaker at the international conference The architectural project as intersection of knowledge. For a renewed notion of heritage (VIII PROARCH forum). Title of the paper: Digital innovation for new forms of living. University of Naples Federico II, November 22, 2019
- 2018/2019** Promoter and scientific responsible (with others) of the conference cycle Beyond the shape. Stories of design and construction of contemporary Italian architecture in the story of the protagonists. Location: School of Architecture and Design "Eduardo Vittoria", University of Camerino, Convento dell'Annunziata, Ascoli Piceno.
 The cycle of conferences, at three/four-monthly intervals, aims to reflect on the relationship between Architecture and Process through the voice of the best Italian architectural firms operating nationally and internationally. Through the monographic story of architectures built in the last years, the aim is to give back the sense of this relationship, highlighting the process dimension of building and showing its influence on the final outcome of Architecture. Lectures: 1) Guests: Massimo Alvisi and Junko Kiritomoto (Alvisi Kiritomoto + partners). Work: the Podemuovo Winery in Palazzone, 2014 - 06/26/2018; 2) Guest: Giovanni Multri (Corvino + Multari). Work: parish in Dresano (MI), 2017 - 22.11.2018; 3) Guest: Emilio Caravatti (Caravatti_Caravatti). Work: Psychomotor Rehabilitation Center Jigija So (Mali, 2014) - 21.03.2019; 4) Guest: Paolo Iotti (Iotti + Pavarani). Work: New offices Reale Group Torino, 2016 - 8.5.2019. .
- November 2018** Speaker at the international conference IFAU 2018 - 2nd International Forum on Architecture and Urbanism, November 8/10, 2018. The conference is organized by the University of Studies G. d'Annunzio Chieti-Pescara - Department of Architecture (DdA) and the Polytechnic University of Tirana - Faculty of Architecture and Urbanism (FAU). The device has the main purpose of bringing together teachers, researchers and scholars to share and exchange their experiences and research results on all aspects related to Landscapes_Cities_Architectures within fragile territories. Among the outcomes of this activity the publication: Bianchi R., Ruggiero R. (2019), (Re)construction post-earthquake. new low-density / high performance settlement models in the context of the villages of central Italy affected by the 2016 earthquake. In: Cellucci C., Di Girolamo C., di Lallo F., Grusso S. (ed.), "Fragile Territories", proceedings of the conference IFAU 2018 - 2nd International Forum on Architecture and Urbanism, Pescara, 7/8 November 2018. Rome: Gangemi Editore Spa, ISBN 978-88-492-3669-9.
- October 2018** Member of the scientific committee and speaker at the international conference Reconstruction in-situ, Amandola (FM), October 3, 2018. Title of the paper: Digital fabrication for common people. In the context of the conference is curator of the homonymous exhibition in which are presented the results of a design experimentation conducted at SAAD of Ascoli Piceno in the field of digital fabrication applied to the field of temporary architecture in contexts of emergency housing.

June 2017 Invited speaker at the conference "Open Green Innovation. For adaptive and resilient architectures" organized by DIARC (Department of Architecture) of the University of Naples Federico II with a speech entitled "Industrialized public housing: a potentially adaptive building stock ". Naples, MAED, Palazzo Latilla, June 23, 2017. The theme of adaptivity is addressed within in the field of public residential construction realized with industrialized building systems. The intervention concerned some European case studies, relating the different intervention strategies adopted with the social, economic and productive conditions in which the interventions have matured and with the results achieved in terms of adaptability of such building stock. On these topics the publication: Ruggiero R. (2018), Resilience and adaptability as design paradigms for the regeneration of fragile urban systems. In: Claudi de Saint Mihiel A., Falotico A. (ed.), "Towards open green innovation. Cultura tecnologica e nuovi driver del progetto contemporaneo", Sant'Arcangelo di Romagna: Maggioli, ISBN 978-88-916-2611-0, pp. 177-191.

June 2017 Invited speaker at the conference "Government and Housing in a Time of Crisis: Policy, Planning, Design and Delivery" (John Moores University, Liverpool, 08-09 sept 2016) where he presents, as first author, the paper Beyond social housing: urban regeneration of public housing in southern Italy. Application of an analysis and design methodology to an emblematic case-study

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Replace with language	B2	B2	B2	B2	B2
	Replace with name of language certificate. Enter level if known.				
Replace with language	B2	B2	B2	B2	B2
	Replace with name of language certificate. Enter level if known.				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Informatics Skills

Microsoft Office Good command of Word, Excel, PowerPoint; basic knowledge of Access

Technical Drawing Working knowledge of Archicad

Graphic Design Working knowledge of Adobe Photoshop and Corel Draw, Autocad

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV".

Date 02/03/2022