

PERSONAL INFORMATION

Gaia Turchetti



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POSITIONS

25/09/2024- ongoing

Ministry of Culture_Architect at the DG ABAP, Directorate General for Archaeology, Fine Arts and Landscape**Service III protection of the historical, artistic and architectural heritage**

- Responsibilities: service at the U.O Tutela beni immobili for the regions of Veneto, Friuli-Venezia Giulia, Trentino-Alto Adige; With reference to the investments of the PNRR: afference to M1C3 - Investment 1.1 'Digital Strategies and Platforms for Cultural Heritage'; M1C3 - 'Culture and Tourism 4. 0' - Investment 1.1 "Digital Strategies and Platforms for Cultural Heritage"; M1C3 - Action Area 2 - Earthquake-proofing of places of worship; Working Group in the Research Lines activated by Service III: Ecological Transition; Digital Transition
Sector Project, Management and Research

01/03/2023 -24/09/2024

Research Fellow (RTdA) SSD ICAR 12 [Architecture Technology] PNRR**"Sapienza" University of Rome****Planning Design Technology of Architecture Department****Scientific Responsible: Prof. Fabrizio Tucci**

- Three-year assignment for the execution of the research programme related to the project "New design models of Net Zero Energy Building, green and smart for energy transition, resource circularity, decarbonisation and the fight against climate change, towards Climate Neutrality and Positive Energy behaviour"
- Teaching of "Certificazione Ambientale degli Edifici" in the Degree course Project Management, Faculty of Architecture, "Sapienza" University of Rome, for the academic years 2023-24.
Sector Research, Education

01/02/2022 – 28/02/2023

Research Grant holder**"Sapienza" University of Rome****Planning Design Technology of Architecture Department****Scientific Responsible: Prof. Fabrizio Tucci**

- RESEARCH GRANT Category B, Type II on "Climate change mitigation and adaptation for the historic city: from 100 Climate- Neutral and Smart Cities Mission objectives to design experimentations. Multi-criteria monitoring, simulation and design methodologies and tools between innovation and protection in cultural heritage".
Sector Research

01/08/2022 – 31/08/2022

Visiting professor and research UAEM- Fapur, Messico**Fac. Planeación Urbana y Regional UAEM, Universidad Autónoma del Estado de México (Mexico).****Tutor Prof. Doc. Salvador Adame Martinez**

- "Regeneración urbana con miras a la mitigación y adaptación al cambio climático: entre escenarios de transformación y protección del patrimonio cultural/ de la ciudad al edificio. Un dialogo metodologico y operativo entre Italia y México".

Sector Research, Education

01/01/2022 – 31/12/2022 **"Avvio alla Ricerca" - Type 2 (Principal investigator)"**

P.I.: Gaia Turchetti

- Research grant entitled "Climate change mitigation and adaptation for the historic city: from 100 Climate- Neutral and Smart Cities Mission objectives to design experimentations. Multi-criteria monitoring, simulation and design methodologies and tools between innovation and protection in cultural heritage."

Sector Research

A.Y. 2020-21, 2021-22, 2022-23,
2023-24

Adjunct Professor
"Sapienza" University of Rome
Postgraduate School in Architectural and Landscape Heritage

- Teaching *"Elements of Environmental Risk Assessment in cultural heritage"*

Sector Academy, Education

02/12/2019 – 13/11/2020

Research Grant holder
Foundation School of Cultural Heritage and Activities, Fondazione MAXXI

- RESEARCH GRANT "Management, accessibility and sustainability: from the design to the opening of the new L'Aquila branch of MAXXI. A cultur(al)-led regeneration process," as part of the "School of Heritage" course of the Foundation School of Cultural Heritage and Activities, a two-year course with the award of a Diploma of High Specialization and Research in Cultural Heritage issued in accordance with Decree Law June 22, 2012 n.83 art.67 and corresponding to 50 ECTS (European Credit Transfer and Accumulation System) credits.

Sector Research

01/07/2015 – 30/09/2015

Visiting scholar
Instituto Universitario de Restauración del Patrimonio (IRP) - UPV Valencia (Spain)
Tutor Doc. Prof. Fernando Vegas, Camilla Mileto

- as part of the PhD programme and also won the Erasmus+ Traineeship grant

Sector Research

01/11/2013 – 20/02/2018

PhD Grant
"Sapienza" University of Rome
Planning Design Technology of Architecture Department

Sector Research

**MAIN RESEARCH
EXPERIENCES**
SCIENTIFIC RESPONSIBILITY FOR NATIONAL AND INTERNATIONAL RESEARCH

05/2022 – 03/2023

Operational Co-coordinator Research "Appia regina viarum: environmental design in support of the candidacy of the Appia Antica as a UNESCO site," Unesco Candidacy of the entire route of the Via Appia Antica. Ministry of Culture

P.I.: Prof. Fabrizio Tucci, Department of Planning, Design, Technology of Architecture, "Sapienza" University of Rome

- 22/12/2022 – 22/12/2022 Winner **BE-FOR-ERC SAPIENZA Excellence Research Project, "SAPIExcellence"**
(Principal investigator)
P.I: Gaia Turchetti
- Title of the proposed and funded research: "C4Hs_index, Climate Change mitigation/adaptation for Cultural heritage: a Compatibility index of project for the construction of a 'weighted transformation' protocol for sustainable Historical urban Spaces". Winner in the "Physical Sciences and Engineering" (PE) Panel under the competitive Call for Proposals "Fellowship BE-FOR-ERC," managed by the aimed at funding No. 6 annual fellowships on ERC funds, for the realization of as many research projects of excellence.
- 06/2020 – 06/2023 Operational Co-coordinator WP1 of the Research Unit of "Sapienza" University of Rome in the **National Research PRIN 2017 "TECH-START - Key Enabling Technologies and Smart Environment in the Age of Green Economy. Convergent innovations in the open space/building system for Climate Mitigation"**
- Scientific Research of the category of Project of Significant National Interest, conducted by 6 locations nationwide, coordinated by Prof. Mario Losasso (Naples "Federico II"): University of Naples "Federico II", "Sapienza" University of Rome, Polytechnic University of Turin, University of RomaTre, University of Ferrara, CNR National Research Center Rome Branch. P.I. of the "Sapienza" Unit, Prof. F. Tucci.
- 03/2021 – 10/2021 Grant for the development and conduct of the applied research project **"Methodology of investigation and valorization of architectural archives, between accessibility and sustainable management. The MAXXI Architectural Archives Center and the case study on the ENI Fund"**
- Fond. Scuola dei beni e delle attività culturali, Fondazione MAXXI
- 03/2021 – 05/2021 Independent research assignment **"Analysis and simulations for green redevelopment and the increase in energy-thermal quality and climate mitigation of the outdoor environment in the Mediterranean climate"**
- Sapienza, University of Rome, Department of Planning, Design, Technology of Architecture
- 01/01/2020 – 31/12/2022 **"Cultore della materia", SSD ICAR 12 (Technology of Architecture)**
- 08/2019 - 07/2020 Independent research assignment **"Analysis and simulations for the control of the energetic, fluid dynamics and thermophysics quality of the spaces built in urban areas, to be performed on an Italian context in comparison with data from international contexts"**
- Sapienza, University of Rome, Department of Planning, Design, Technology of Architecture
- 11/2019 – 11/2019 Independent research assignment **"Analysis and simulations for the control of the microclimatic, fluid dynamics and energy- thermal quality of the urban environment of a northern area of Rome"**
- Sapienza, University of Rome, Department of Planning, Design, Technology of Architecture
- 11/2018 – 07/2020 Operational Co-coordinator WP2 of the Research Unit of "Sapienza" University of Rome in the **National Research PRIN 2015**, Program funded by the Presidenza del Consiglio dei Ministri, Comitato Interministeriale per la Programmazione Economica (Prot.2015MXPTHK CUP B86J16002340001), entitled **"Adaptive Design and technological innovations for the resilient regeneration of urban districts in a climate change regime"**
- Scientific Research of the category of Project of Significant National Interest, conducted by 6 locations nationwide, coordinated by prof. Mario Losasso (Napoli "Federico II"): Politecnico di Milano (R.S. prof. E. Mussinelli), Università degli Studi di Firenze (R.S. prof. R. Bologna), Università degli Studi di Roma "La Sapienza" (R.S. F. Tucci), Università degli Studi di Napoli "Federico II" (R.S. prof. M. Losasso), Università degli Studi della Campania "L. Vanvitelli" (R.S. R. Valente), Università "Mediterranea" di Reggio Calabria (R.S. M.T. Lucarelli)
- 04/2016 -09/2016 **CNR – IDASC Internship**
- Istituto di acustica e sensoristica "Orso Mario Corbino"

07/2015 – 09/2015 **Erasmus+ Traineeship**

Instituto Universitario de Restauración del Patrimonio (IRP) - UPV Valencia (Spain)

PARTICIPATION IN RESEARCH ACTIVITIES IN NATIONAL AND INTERNATIONAL GROUPS

- 04/2023- 09/2024 Member of the Research Unit of "Sapienza" University of Rome the National Research **PRIN 2022 'FASTECH - a model for a rapid technological retrofit of buildings to reduce the energy demand and greenhouse gas emissions of homes Towards self-consumption of renewable energy and smart energy communities'**, within the framework of the P.R.I.N. (Call for Proposals 2022). Coordinator: Prof. F. Tucci.
- 05/2023 -09/2024 Participation as a member of the "Redevelopment of some aspects of the historical museum of the **Galleria Borghese in Rome**, in relation to: **implementation of energy management, renovation of windows and doors, improvement of the lighting system, improvement of bioclimatic conditions, implementation of support conditions for the museum exhibition'** Piazzale Scipione Borghese, 5 - Rome. Head and coordinator of the structures involved on the various organisational levels Arch. Fabrizio Tucci, within the framework of the agreement between Sapienza University of Rome and the Ministry of Culture - Galleria Borghese.
- 01-03-2023 - 09/2024 Member of the Working Table of the "Sapienza" University of Rome for the research PNRR Rome Technopole - Strategic Specialization Area: Energy Transition and Digital Transition - **FP2: Energy transition and digital transition in urban regeneration and construction** - Theme 1: Energy transition in multiscale project - Subtopic 1.2: **passive and active bioclimatic and thermal energy aspects**
P.I. of the Topic: Prof. Fabrizio Tucci, PDTA Department, "Sapienza" University of Rome; Co-coordinator of the topic: Prof. D'Olimpio, Prof. Cecafofso, Sapienza.
- 12/2023-09/2024 **Drafting of a green building and ecological-urban, energy and climate sustainability regulation as part of the scientific consultancy activity for Roma Capitale**, Department of Urban Planning and Implementation. Scientific Referent: Prof. F. Tucci, in the framework of the broader agreement with the Municipality of Rome including the studies for the Ostiense City Plan, Scientific Referent Prof. L. Ricci
- 06/2024-09/2024 **'Predictive models of environmental design for the regeneration of the State's public architectural heritage'** within the framework of the technical-scientific agreement between Agenzia del Demanio, Structure of Planning and Sapienza University of Rome, Dept. Scientific Responsible: Prof. A. Battisti Prof. Alessandra Battisti, Department of Planning Design Architecture Technology, 'Sapienza' University of Rome
- 09/2023-02/2024 **Development of a Prototype of integrated public platforms for energy generation and storage, called 'SMART MOBILITY HUB| integrated platforms for energy generation and storage in island configuration for off-grid services'**. Funding provided by the STEMS Department of the CNR of Naples. Head and coordinator of the structures involved on the various organisational levels Arch. Fabrizio Tucci, within the framework of the agreement between Sapienza University of Rome and CNR, Institute of Science and Technology for Energy and Sustainable Mobility, Naples
- 06/2022 - 03/2023 Participation as a member of the **"Bioclimatic study of the Botany Building at the University City of the University of Rome "La Sapienza"**
Research group coordinated by Prof. Arch. F. Tucci; Bartolomeo Azzaro, Carlo Bianchini, "Sapienza" University of Rome
- 12/2022- ongoing Participation as a member of the **"Digital Twin for the configuration of sustainable scenarios of valorisation, management and maintenance of architectural heritage"**
Research group coordinated by prof Alessandra Battisti, PDTA Department, "Sapienza" University of Rome
- 03/2021 - 12/2021 Participation as a member of the **"Working Group on Climate Neutrality of Green Cities"** in research activities aimed at drafting the Report **"Towards Climate Neutrality of**

Green Cities. Approaches, directions, strategies, actions" presented as part of the activities of the Green City Network at the Stati Generali della Green Economy at Ecomondo 2021

P.I. Prof. F. Tucci, in collaboration with Green City Network and Stati Generali della Green Economy.

- 01/2021 - 12/2021 **Member of the University Research Working Group "Climate-Pandemic-ProofDesign: strategies, measures, technological systems for post-Covid climate mitigation and carbon neutrality"**
Research group coordinated by P. I. Prof. Fabrizio Tucci, PDTA Department, "Sapienza" University of Rome
- 06/2020 - ongoing **Member of the Research Unit of "Sapienza" University of Rome the National Research PRIN 2017 "TECH-START - Key Enabling Technologies and Smart Environment in the Age of Green Economy. Convergent innovations in the open space/building system for Climate Mitigation"**
U.R. PDTA Department, "Sapienza" University of Rome, P.I. Prof. F. Tucci, Research team: Prof. S. Baiani, Prof. A. Battisti, Prof. D. D'Olimpio, Prof. R. Valente, P. Altamura, V. Cecafosso, M. Crespi, G. Turchetti, A. Abouaina, C. Cattivera, M. Giampaolletti, B. Haour, G. Romano.
- 11/2018 – 07/2020 **Member of the Research Unit of "Sapienza" University of Rome the National Research PRIN 2015 "Adaptive Design and Technological Innovations for Resilient Regeneration of Urban Districts under Climate Change"**
National coordinator Prof. Mario Losasso (Naples "Federico II"); conducted by 6 locations nationwide: Politecnico di Milano, University of Florence, "Sapienza" University of Rome, University of Naples "Federico II", University of Campania "L. Vanvitelli", "Mediterranea" University of Reggio Calabria. P.I. of the Unit of the "Sapienza" University of Rome, Prof. F. Tucci.
- 01/2018 - 07/2019 **Member of the working group for the University Research "Resilient Design: design directions and technical-implementation strategies for controlling the microclimate and energy quality of the urban environment in Italy"**
Research group coordinated by P. I. Prof. Fabrizio Tucci, PDTA Department, "Sapienza" University of Rome
- 01/2017 - 12/2018 **Research on behalf of third parties "Research activity aimed at strengthening the use of natural and hybrid bioclimatic factors, and optimizing their impact on comfort and energy aspects, as a support for the development of infrastructure and public space projects in cities" (2017 -2018). Client: Italferr Gruppo Ferrovie dello Stato Italiane.**
Research group coordinated by P. I. Prof. Fabrizio Tucci, PDTA Department, "Sapienza" University of Rome
- 01/2016 - 12/2017 **Member of the working group for the University Research "Microclimatic Control, Adaptation and Mitigation in the Mediterranean Built Environment, from an Interdisciplinary and Multiscale Approach"**
Research group coordinated by P. I. Prof. Fabrizio Tucci, PDTA Department, "Sapienza" University of Rome

TEACHING ACTIVITIES

- 03/2013- ongoing **teaching and teaching support activities** since 2013 at the Faculty of Architecture and at the School of Specialization in Architectural and Landscape Heritage of Sapienza University of Rome.
Since a.a 2018-19 -ongoing Technological Design Laboratory, of Architecture 3rd year of the EU Architecture Degree Course, chair chaired by prof. F. Tucci
a.a. 2022-23 Lecture/Seminar as Visiting professor and research UAEM- Fapur, (Mexico) Degree in UAEM- Fapur, (Mexico) Degree and PhD course, Facultad de Planeación Urbana y Regional UAEM, Universidad Autónoma del Estado de México (Messico).
Since a.a. 2020-21- ongoing Adjunct Professor Course Elements of Environmental Risk Assessment in Cultural Heritage. School of Specialisation in Architectural and Landscape Heritage, Faculty of Architecture, Sapienza University of Rome
Since a.a. 2017_2018 to 2019-20 Seminar in Course Elements of Environmental Risk Assessment in Cultural Heritage. School of Specialisation in Architectural and Landscape Heritage, Faculty of Architecture, Sapienza University of Rome
Since a.a. 2013-14 to 2015-16 Course in Technological Design for Architectural Redevelopment; L. Cupelloni Professor, Master of Science in Architecture and Restoration, Faculty of Architecture,

Sapienza University of Rome

Invited lecturer at several teaching seminars. Serves as **thesis co-tutor** at the Faculty of Architecture of Sapienza University of Rome

EDUCATION AND TRAINING

01/10/2018 – 31/10/2020

High specialization and research “Scuola del Patrimonio”

Fondazione Scuola dei beni e delle attività culturali

"School of Heritage" course of the Foundation School of Cultural Heritage and Activities, a two-year course with the award of a Diploma of High Specialization and Research in Cultural Heritage issued in accordance with Decree Law June 22, 2012 n.83 art.67 and corresponding to 50 ECTS (European Credit Transfer and Accumulation System) credits.

11/2013 – 02/2018

PhD in Environmental Design

ISCED 6

Planning Design Technology of Architecture Department, “Sapienza” University of Rome

Thesis title: Natural ventilation in the historic city. Methodologies and tools for the rapid evaluation of the ventilation factor for the improvement of the comfort conditions of the open space. Supervisor: Prof. L. Cupelloni; External consultant: Prof. I. Di Menno di Bucchianico, CNR-IDASC associated. Final degree mark: Excellent

01/2011 - 03/2013

Postgraduate School in Architectural and Landscape Heritage

“Sapienza” University of Rome

Thesis title: Falerii Novi, cistercian abbey. The revaluation of a reality forgotten. Final degree mark: 70 cum laude/70

01/2009- 01/2010

2nd level master Architectural design for the recovery of historic buildings and public spaces - P.A.R.E.S

“Sapienza” University of Rome Scholarship winner / Final degree mark: 110/110

10/2003 – 14/07/2009

Five Years MSc Architecture

ISCED 5

(110/110 cum laude)

First Faculty of Architecture ‘Ludovico Quaroni’, ‘Sapienza’ University of Rome

Thesis title: CODE Museum, center of contemporary photography. Supervisor: Prof. Arch. L.V. Barbera.

a.a.2002/2003

High school (classical gymnasium)

(100/100) Liceo Classico “Plauto”, via A. Renzini, 70 – Roma

PERSONAL SKILLS

Mother tongue

Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B1
Spanish	C1	C1	C1	C1	B2
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages

Digital skills	Excellent knowledge and skills obtained through university education, post-graduate specialisation courses and professional activity: ● Excellent knowledge of Ecotect™ energy diagnosis and assessment software, ENVI-met™, EnergyPlus ● Excellent knowledge of CAD and 3D applications AutoCAD™ and 3D Studio Max™. ● Excellent knowledge of graphic applications Adobe Illustrator™, PhotoShop™, Adobe Acrobat Pro™, Adobe InDesign™, AfterEffects; Adobe Premier. ● Excellent knowledge of the 'Wisdom' web interfaces GOMP/SIAD, Infostud, U-GOV ● Excellent knowledge of web interfaces for consulting scientific research databases Science Direct, Google Scholar, Research Gate ● Good knowledge of Building Information Modules (BIM) ● Excellent knowledge of Microsoft Office™ package software (Word™, Excel™, PowerPoint™, Access™, Publisher™, Outlook™, Internet Explorer™).
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ADDITIONAL INFORMATION

PUBLICATIONS

Overall scientific production [since 2011] consists of **49** publications, including:

- number of articles and volume contributions: **39** (some of which are to be published in 2024)
- number of articles published in class A journals: **7**
- number of monographic volumes: **3**
- other publications: **6**

Libri monografici a carattere scientifico dotati di ISBN

(in ordine cronologico inverso)

1. Tucci, F., Altamura P., Cecafofso, V., Turchetti, G. (2023), Verso la neutralità climatica di architetture e città green. Approcci, indirizzi, strategie, azioni. Franco Angeli, Milano. ISBN 9788835150459 doi: <https://doi.org/10.3280/OA-987>
2. Tucci, F., Cecafofso, V., Turchetti, G. (2020), Adaptive resilient envelopes. Innovazione e sperimentazione negli involucri cromogenici e a cambiamento di fase, Altralinea Edizioni, Firenze. ISBN 9788894869842 <https://altralineaedizioni.it/wordpress/wp-content/uploads/2021/01/NEW-FRONT-vol.-Adaptive-Anteprema.pdf>
3. Tucci, F., Cecafofso, V., Caruso, A., Turchetti, G. (2020), Adattamento ai cambiamenti climatici di architetture e città green, Assi strategici, indirizzi, azioni d'intervento per la resilienza dell'ambiente costruito, FrancoAngeli, Boringhio. ISBN 9788835109525 https://francoangeli.azureedge.net/fa-contenuti/area_pdfdemo/86.1.7_demo.pdf

Contributi in volumi a carattere scientifico dotati di ISBN

(in ordine cronologico inverso)

4. Tucci, F., Cecafofso, V., Giampaolletti, M., Turchetti, G., Mitrik, K., Montagner, L. (under publication). Green architecture, nzeb and climate neutrality. An intervention design model for deep renovation of public housing. MED Green Forum, Springer Nature, Firenze
5. Tucci, F., Baiani, S., Altamura, P., Turchetti, G., Tulelli, V. (under publication). Adaptive circular model for residual biomass valorisation at the neighbourhood scale. A key stream for climate neutrality, NMP2024, RC
6. Baiani, S., Turchetti, G., Romano, G. (under publication), "The Resilience of Unfinished Architecture: A Life Cycle and NetZero Approach to Adaptive Heritage Reuse". In: Calabrò, F., et al. (eds.), Networks, Markets & People: Communities, Institutions and Enterprises towards post-humanism epistemologies and AI challenges, Vol. 1, Springer, Berlin
7. Baiani, S., Turchetti, G., Romano, G., Rossini, G. (under publication), Uso efficiente e circolare delle risorse nel progetto dell'esistente. Un approccio multiscalare. In: Losasso, M., Romano, R. (a cura di), Progettazione Ambientale, sfide globali, scenari di ricerca. Pulito Editore, Napoli. (under publication)
8. Baiani, S., Turchetti, G., Romano, G. (under publication - 18 dicembre 2024), The Resilience of Unfinished Architecture: A Life Cycle and NetZero Approach to Adaptive Heritage Reuse. In: Calabrò, F., Madureira, L., Morabito, FC, Piñeira Mantñan, MJ (a cura di), Networks, Markets & People: Communities, Institutions and Enterprises towards post-humanism epistemologies and AI challenges, Vol. 7 Chapter 26. Springer, Cham. (under publication)
9. Baiani S., Altamura P., Turchetti G. (2024), "Circularity", in Andrea Crudeli (ed.), Adaptive

- Reuse. Theoretical Glossary and Design Labs, STH Press Firenze
<https://iris.uniroma1.it/handle/11573/1722334?mode=complete>
10. Tucci, F., Cecafozzo, V., Turchetti, G., Giampaolletti, M., Mastellari, C. (2024). "Innovative tools and protocols for the regeneration of urban and peri-urban districts towards climate neutrality", in NEXTBUILT 2024, International Conference on Challenges for the Next Generation Built Environment, IOP Conference Series: Earth and Environmental Science (EES) Online ISSN: 1755-1315 (on line) Print ISSN: 1755-1307 (volume a stampa)
<https://iopscience.iop.org/article/10.1088/1755-1315/1402/1/012061>
 11. Baiani S., Altamura P., Turchetti G. (2024), "Circular Contemporary Heritage. Design experimentations on conservation and reuse aiming at material resource efficiency and decarbonization", in Bartolomei C., et al., Contemporary Heritage Lexicon, Springer Tracts in Civil Eng., Cham https://link.springer.com/chapter/10.1007/978-3-031-61245-9_20
 12. Baiani S., Turchetti G., Romano G. (2024), "Widespread industrial heritage in fragile sites as a resilient resource. A life cycle and NetZero approach to regeneration", in: ETHICS: Endorse Technologies for Heritage Innovation. Cross-disciplinary Strategies, Cham, Springer Nature, https://link.springer.com/chapter/10.1007/978-3-031-50121-0_15
 13. Turchetti G. (2022), "Environmental monitoring of the historic city", in S. García-Ayllón & J.L. Miralles (eds), Future Challenges in Sustainable Urban Planning & Territorial Management, Un. Pol. Cartagena
https://www.researchgate.net/publication/357886278_Environmental_monitoring_of_the_historic_city
 14. Turchetti, G. (2022), Microclimatic monitoring as basis of a project process: an experimentation in Rome", in H. Varum, A. Furtado & J. Melo (eds.), Xth edition of the ReUSO. Documentation, Restoration and Reuse of Heritage, Book of proceedings, pp. 873-882. ISBN 9789727522965 (e-book) <https://iris.uniroma1.it/handle/11573/1664992>
 15. Turchetti, G. (2022), Giorgio Peguiron. Brani scelti. in Attaianesi E., Losasso M. (Eds), La ricerca nella Progettazione ambientale, Maggioli Editore, Santarcangelo di Romagna. p. 93. ISBN 9788891650788 <https://iris.uniroma1.it/handle/11573/1665222>
 16. Tucci, F., Cecafozzo, V., Turchetti, G. (2021) "La multiscalarità degli interventi di adattamento climatico: programmi strategici, metaprogettazione e progetti dimostratori | The Multiscalarity of Climate Adaption Interventions: Strategic Programmes, Meta-design and Demonstration Projects". In Bologana R., Losasso, M. Mussinelli E., Tucci F. (a cura di) Dai distretti urbani agli eco-distretti. Metodologie di conoscenza, programmi strategici, progetti pilota per l'adattamento climatico | From Urban Districts to Eco-districts. Knowledges Methodologies, Strategic Programmes, Pilot Projects for Climate Adaption Interventions: Strategic Programmes, Meta-design and Demonstration Projects. Maggioli Editore, Santarcangelo di Romagna ISBN 9788891643209 (volume a stampa). pp. 61-68. ISBN 9788891643216 (e-book)
<https://iris.uniroma1.it/handle/11573/1480795>
 17. Turchetti, G. (2020). "Cultural (and climatic) regeneration per la città storica", in M. Perriccioli et al (a cura di), Design in Digital Age. Technology Nature Culture, Maggioli, Santarcangelo di Romagna, pp. 112-114 <https://iris.uniroma1.it/handle/11573/1485620>
 18. Battisti, A., Turchetti, G. (2020) "Urban Regeneration/Rigenerazione Urbana" in Losasso, M., Lucarelli M.L., Rigillo M., Valente R. (a cura di) Adattarsi al clima che cambia. Innovare la conoscenza per il progetto ambientale/Adapting to the changind climate. Innovating knowledge for the enviromental project, Maggioli Editore, Collana Studi e Progetti, Santarcangelo di Romagna. pp. 107-112. ISBN 9788891643186 (volume a stampa). ISBN 9788891643193 (e-book) <https://iris.uniroma1.it/handle/11573/1639255>
 19. Turchetti, G. (2020). "Euromediterranée-Smartseille recovery, Marseille (France)". in Losasso, M., Lucarelli M.L., Rigillo M., Valente R. (a cura di), Adattarsi al clima che cambia. Innovare la conoscenza per il progetto ambientale/Adapting to the changind climate. Innovating knowledge for the enviromental project, Sant'Arcangelo di Romagna, Maggioli, ISBN 9788891643186 (volume a stampa). ISBN 9788891643193 (e-book)
<https://iris.uniroma1.it/handle/11573/1639235.5>
 20. Turchetti, G. (2020). "Natural ventilation and cfd in the historic city: the quality of the urban project/ Ventilazione naturale e cfd nella città storica: la qualità del progetto urbano". In M. Lauria, E. Mussinelli, F. Tucci (a cura di), Producing Project, Maggioli, Santarcangelo di Romagna, pp. 248-254. <https://iris.uniroma1.it/handle/11573/1485626>
 21. Tucci, F., Baiani, S., D'Olimpio, D., Altamura, P., Turchetti G. (2020), "Resilienza, adattamento e mitigazione in un'ottica di green building approach/Resilience, adaptation and mitigation under a green building approach", PROJECT Essays & Researches. pp. 156-191. ISBN 9788855090940 <https://unipapress.com/wp-content/uploads/2022/03/38.pdf>
 22. Turchetti G. (2019), "Ventilazione naturale e cfd nella città storica: la qualità del progetto urbano" in Lauria, M., Mussinelli, E., Tucci, F. (eds.), La produzione del Progetto, Collana Studi e Progetti, Maggioli Editore, Santarcangelo di Romagna, pp. 255-262, ISBN 9788891636027. (Contributo sottoposto a blind peer review internazionale)

- <https://iris.uniroma1.it/handle/11573/1655811>
23. Turchetti, G. (2018). "Falerii Novi abbazia cistercense. la rivalutazione di una realtà dimenticata", in Bulian, De Camillis, Monesi et al, Museografia, temi e metodi dell'allestimento museale, L'erma, Roma. ISBN 978-88-913-1668-4
<https://iris.uniroma1.it/handle/11573/1485602>
 24. Turchetti, G. (2018). "Il miglioramento microclimatico della città storica: 'uso efficiente' dello spazio aperto" in ReUSO 2018. L'intreccio dei saperi per rispettare il passato interpretare il presente salvaguardare il futuro, Gangemi Editore, Roma, pp. 2353-2358. ISBN 9788849236590 <https://iris.uniroma1.it/handle/11573/1639370>
 25. Turchetti, G. (2017), "Urban microclimate: natural ventilation and open space in the historic city. Summary of critical evaluation on the italian and international research", Proceedings of the 4th WTA International PhD Symposium, Delft, Netherlands, 13-16 September 2017, pp. 157-163. ISBN: 978-90-79216-19-2 <https://iris.uniroma1.it/handle/11573/1033318>
 26. Turchetti, G. (2017), "Integration of passive systems to improve the environmental comfort in historic buildings: the natural ventilation. Definition of operational and design models", in Medici, M.; Modugno, V.; Pracucci, A. (Eds). How to face the scientific communication today. International challenge and digital technology impact on research outputs dissemination. Atti Seminario OSDOT 2.0 (XI) 9 novembre 2015, pp. 99-108. e-ISBN 9788864534978
<https://iris.uniroma1.it/handle/11573/975334>
 27. Turchetti, G. (2016), "Microclima urbano: ventilazione naturale e ridefinizione dello spazio della città storica", in Talia M.(Ed.), Un nuovo ciclo della pianificazione urbanistica tra tattica e strategia/A new cycle of Urban Planning between Tactic and Strategy, Planum Publisher, Roma-Milano, pp. 120-124 ISBN 9788899237059
<https://iris.uniroma1.it/handle/11573/1033262>
 28. Turchetti G. (2016), "Dal contesto alla vetrina espositiva", I Servizi per la Cultura: strategie per una visita di qualità. Roma: Fondazione Enotria Onlus. HERITY. Dossier; n. 5, ISBN 9788890382949 <https://iris.uniroma1.it/handle/11573/1485639>
 29. Turchetti, G. (2015), "La valorizzazione dell'esistente: il progetto ambientale", REUSO 2015. III Congreso Internacional sobre documentación, conservación y reutilización del patrimonio arquitectónico y paisajístico. - III Convegno Internazionale sulla documentazione, conservazione e recupero del patrimonio architettonico e sulla tutela paesaggistica. Editorial Universitat Politècnica de València, pp. 643-650. ISBN 978-84-9048-386-2
<https://iris.uniroma1.it/handle/11573/855698>
 30. Turchetti, G. (2015), "Patrimonio culturale: coscienza sociale e progettazione", Atti della XVIII Conferenza Nazionale SIU. Italia '45-'45. Radici, Condizioni, Prospettive, Venezia, 11-13 giugno 2015, Roma-Milano: Planum Publisher, pp. 1535-1539. ISBN 9788899237042
<https://iris.uniroma1.it/handle/11573/974879>
 31. Figliola, A. e Turchetti, G. (2015), "Innovazione e stratificazione nella modernità: declinazioni del concetto di 'nuovo' dal restauro all'avanguardismo radicale", Quaderni Planning Design Technology, Type and model, No. 04, RDesignPress, Roma, pp. 192-197. ISBN 978-888981954-8 <https://iris.uniroma1.it/handle/11573/869449>

Articoli su riviste di classe A e riviste scientifiche con ISSN

(riconosciute in elenchi ufficiali ANVUR e in ordine cronologico inverso)

32. D'Olimpio, D., Cecafofso, V., Turchetti, G. (under publication), " District model: principi chiave e approcci di bioclimatic design per distretti carbon-neutral" In Techne. Journal of Technology for Architecture and Environment, n. 29, FUP Editore.. Print Edition ISSN: 2240-7391. On line Edition [Class A] ISSN: 2239-0243. Rivista in CLASSE "A". Articolo selezionato con double-blind peer review.
33. Turchetti G. (under publication), La Tutela ecologica: una rilettura critica della Carta di Venezia alla luce delle strategie di adattamento e mitigazione ai CC in contesti urbani consolidati e non, Journal Restauro Archeologico, Firenze Un. Press. [Class A]
34. Baiani, S., Altamura, P., Turchetti, G., Romano, G. (2024), Energy transition and circular adaptive reuse of industrial heritage. The case of the Ex Snia in Rome, Agathón, V,15. [Class A] DOI: <https://doi.org/10.19229/2464-9309/15152024>;
<https://www.agathon.it/agathon/article/view/410>
35. Tucci, Baiani, Altamura, Turchetti (2024). Climate proofing dell'ambiente urbano tra norma e progetto: un processo olistico e partecipato, Techne Journal, 27. [Class A] DOI: <https://doi.org/10.36253/techne-15170>;
36. Turchetti, G. (2023), Conoscere il microclima urbano. Una riflessione operativa per Roma verso uno Urban Digital Twin, EcoWebTown Journal, 26
http://www.ecowebtown.it/n_26/pdf/9.4%20EWT%20Gaia%20TURCHETTI%20127-136.pdf
37. Turchetti, G. (2023), Rome Local Climate Zone (RLCZ): strumento di supporto decisionale per

- la città storica. *Techne, Journal*, 25 [Class A] <https://oaj.fupress.net/index.php/techne/article/view/13715>
38. Turchetti, G. (2022), "Le sfide del 'terzo spazio' urbano per una rigenerazione sostenibile: tra cultura e azioni per la mitigazione e adattamento al cambiamento climatico". *Urbanistica Informazioni*, special issue, 306, pp. 516-517. ISSN 0392-5005 <https://iris.uniroma1.it/handle/11573/1665217>
 39. Turchetti, G. (2022), "Convention Concerning the Protection of the World Cultural and Natural Heritage and SDGs. Research and interviews about the role of museums as cultural hubs for the sustainable management, accessibility, and climate change in the context of urban regeneration processes", *Journal Restauro Archeologico*, Firenze University Press. [Class A] <https://iris.uniroma1.it/handle/11573/1655564>
 40. Turchetti, G. (2020). "Environmental quality of the historical city: the wind strategy challenge/Qualità ambientale della città storica: la sfida della wind strategy". *TECHNE Journal of Technology for Architecture and Environment*, n.19, pp. 203-212, ISSN 2239-0243 [Class A] <https://iris.uniroma1.it/handle/11573/1485608>
 41. Turchetti, G. (2018). "Spazio urbano della città storica e ventilazione naturale. Esperienze internazionali di 'ri'pianificazione e 'ri'progettazione microclimatica/Urban space of the historical city and natural ventilation. International experiences of microclimatic 're'-planning and 're'-designing". in *Costruire lo spazio pubblico. Tra storia, cultura e natura. Urbanistica Dossier online* n.15. pp. 245-248, INU Edizioni, Roma ISBN: 978-88-7 603-195-3 <https://iris.uniroma1.it/handle/11573/1639241>
 42. Turchetti, G. (2017), "Microclima urbano: ventilazione naturale e ridefinizione dello spazio della città storica/Urban microclimate: natural ventilation and space redefinition of historic city", *Urbanistica*, No.157, pp. 156-159, INU Edizioni, Roma ISSN 0042-1022 [Class A] <https://iris.uniroma1.it/handle/11573/1033284>
 43. Turchetti G. (2011), "A proposito del ponte della Musica", in *Il Giornale dell'Architettura*, 96. p.4 Società Editrice Allemandi e Co. ISSN 1721-5463

Altre pubblicazioni

(in ordine cronologico inverso)

44. AA.VV. (2021), *Verso la neutralità climatica delle Green City. Approcci, indirizzi, strategie, azioni*. Report, Available at www.statigenerali.org/wpcontent/uploads/2021/10/stati_generali_green_economy_La_neutralita_climatica_delle_citta.pdf
45. Turchetti, G. (2021), "Museum as a cultural hub: the challenge of sustainability in a post-pandemic scenario", in ICAMT online conference 2020. Available at icamt.mini.icom.museum/wp-content/uploads/sites/13/2021/08/ICAMT-Online-Conference-2020-Book_S.pdf
46. Turchetti, G. (2021), "Museum and SGDs in a post-pandemic scenario", *American Alliance of Museums 2021 Annual Meeting & MuseumExpo*. June 07, 2021 to June 09, 2021 (poster)
47. AA.VV. (2019), *Adattamento ai cambiamenti climatici di Architetture e Città 'Green' per migliorare la resilienza dell'Ambiente Costruito*. Minacce, vulnerabilità, rischi. Assi strategici, indirizzi, azioni d'intervento, 2° Conferenza Nazionale delle Green City (Milano, 16 luglio 2019).
48. Turchetti G. (in revisione), "Ciudad histórica: el monitoreo microclimático para la redefinición espacial", in 1° Congreso Internacional Estudio de Planeación Territorial y Ambiental. Territorio-ambiente: problemáticas y tendencias. UAEMex
49. Turchetti Gaia (2018), Tesi di dottorato "Ventilazione naturale nella città storica. Metodologie e strumenti per la valutazione speditiva del fattore ventilativo per il miglioramento delle condizioni di comfort dello spazio aperto" Relatore Settore ICAR/12 Tecnologia dell'Architettura. Supervisore: prof. Luciano Cupelloni, Esternal advisor: Prof. Ivo Di Menno (di Bucchianico associato CNR-IDASC), Coordinatore del corso di dottorato, prof. Fabrizio Tucci. Corso di dottorato XXIX ciclo in Progettazione Tecnologica Ambientale, Dip. di Pianificazione, design e tecnologia dell'architettura, Sapienza Università di Roma.

EDITORIAL BOARDS

Member of the Editorial Committee of the **Editorial Series: "Environmental Technological Design"** of the Altralinea Edizioni publishing, Florence, directed by Prof. Alessandra Battisti and Prof. Fabrizio Tucci. Since 2018, the Series subjects all volumes to be published to international double-blind peer review.

Member of the Editorial Committee of the Editorial Series: **"Building/Studies 'B.A.S.E.S. Benessere ambientale, Sostenibilità, Energia, Salute'"** directed by Prof. Tiziana Ferrante and Prof. Fabrizio Tucci, of the Franco Angeli publishing house in Milan.

Since 2023 Review activities *Techne Journal*, *Journal of Technology for Architecture and Environment* ISSN: 2239-0243 [Class A]

Since 08/2022 Review activities Quivera Revista de Estudios Territoriales (E-ISSN 2594-102X) of the Autonomous University of the State of Mexico. Peer-reviewed scientific journal with six-monthly periodicity (January-July) registered in the following indexing services and databases: Redalyc, Latindex Catilogo 2.0, CLASE, RED1B, Sherpa Romeo, LatinREV, MIAR and ERIHPLU

09-11/2022 review activities on the occasion of the ICOMOS 21st General Assembly and Scientific Symposium / 21e Assemblée Générale et le Symposium scientifique de l'ICOMOS. 31 August 2023 - 9 September 2023. Sydney, Australia

CONFERENCES and SEMINARS

Since 2021 **Co-coordinating in Workshops and seminars**, as well as being the organizer of seminars involving professionals from National Research Institutions (CNR) and National Museums (MAXXI, Egyptian Museum of Turin)

Since 2014 to date, she has **participated as a speaker** in numerous national and international conferences and congresses and has organized National and international seminars and workshops.

PERSONAL SKILLS

Good communication skills acquired during the participation in various national and international design teams, seminars, workshop and conferences in collaboration with different professional figures. Good dialectical and writing skills (conferences as a speaker, seminars and lectures, articles in scientific journals and class A).

Analytical and proactive capacity, good skills in work organization and coordination and division of work among team members, gained through collaboration with professional firms and different professional profiles. Participation in group competitions as a group leader. Availability to travel.

Creation and realization of projects at different scales, thanks to the training and professional experiences carried out in collaboration with teams. Particular interest in re-functionalization interventions in compliance with the principles of protection and possible improvement of the energy efficiency of the protected heritage and of the public space. Technical-computer skills in microclimatic modelling and simulation. Use of instrumentation for the measurement of the microclimate in situ. Ability to develop bibliographic and archival research. Ability to plan and coordinate university students, acquired in the various educational activities carried out.

HONOURS AND AWARDS

National Scientific Qualification (ASN) II level 08/C1 SSD ICAR/12 (2023-2034)

Grants for research activities

Winner of No.12 grants for research activities at universities, foundations, professional bodies, European programs, including **BE-FOR-ERC SAPIENZA 2022** Excellence Research Project, "SAPIExcellence" as PI (Principal Investigator) and 2 grant **Erasmus+** and **Erasmus+ Traineeship**.

Recognitions as an Expert

Recognitions as an **Expert** of Proven Qualification of the Technical Secretariat established at the Special Superintendence for the PNRR and as an Expert for the configuration, implementation and management of the Archaeological Spatial Information Service; Certificate of Safety Coordinator in Design (**CSP**) and/or Execution (**CSE**) on Construction Sites; Qualification 24 CF

MEMBERSHIPS

Member of several Academies and Scientific Societies and cultural institutions of prestige for the competitive field including: **SITdA** (Italian Society of Architectural Technology), **Docomomo** Italy and International, **IBPSA-IT** (International Building Performance Simulation Association), **GBC Italia**, **INU** (National Institute of Urban Planning), member of **IN'ARCH**, ordinary member of the international institute **EUROSOLAR** and Expert **International Working Group of the Green City Network** collaborating especially in the drafting of the Report: "Towards Climate Neutrality of Green Cities. Approaches, Directions, Strategies, Actions," presented at the States General of the Green Economy (October 26, 2021 - Ecomondo), and the Report: "Climate Change Adaptation of 'Green' Architectures and Cities to Improve the Resilience of the Built Environment. Threats, Vulnerabilities, Risks. Strategic Axes, Directions, Intervention Actions," presented at the 2nd National Green City Conference (Milan, July 16, 2019).

TUTORING OF PHD AND MSc DEGREE THESIS

Co-supervisor of over 25 degree theses in educational seminars chaired by prof. F. Tucci.

I hereby authorize the processing of the personal data contained in this CV in compliance with the Italian Personal Data Protection Code (Legislative Decree no. 196 of 30 June 2003).

Rome, 28/10/2024