

Theo Zaffagnini (1968) graduated in Architecture at the Faculty of Architecture of the University of Florence (Italy) in 1993. His master's degree thesis was published and reviewed by the Italian architecture reviewer Arch. Glauco Gresleri on the international architectural review "Parametro".

In the Academic Year (A.Y.) 1993/94 he has been admitted as Teaching Assistant of Architectural Technology by the Faculty of Architecture of The University of Ferrara (Italy).

In 1995 after his application and selection to the selective admission call for the Ph.D. Course in Architectural Technology (10th cycle) at the University of Florence / Department Processi e Metodi per la Produzione Edilizia (DPMPE) in 1999 he succesively achieved his Ph.D. in Architectural Technology.

In november 1999, he passed the National selective call for Researchers announced by the Faculty of Architecture of the University of Ferrara and became Faculty Member and Researcher of the same University.

Since 1999 to 2014 he filled the role of Researcher of Architectural Technology at the University of Ferrara, Faculty of Architecture.

After he passed in 2014 the National achievement test and a following call by the University of Ferrara, he is currently Associate Professor at the Department of Architecture where he teaches Architectural Technology.

His research activity is mainly focused on technological innovation in building processes and materials, on sustainable approach to architecture and on restoration, refurbishment and re-use of historical buildings.

Teaching activities

Starting from 2000 to 2005 he has been Adjoint Teacher of Architectural Technology.

Since september 2005 up to the present he has been working as appointed Professor of the integrated teaching module of "Architectural Technology" of the Laboratory of Building Construction 1 (Second Year, Course B – Master's Degree course 5 years) (Class LM-4; Credits: 11).

Within the activities of this Laboratory he organized about twenty editions of the Contest "Timber based building systems" and the same number of final public exhibitions. The contest is usually reserved to all the semester course students and the winners and shortlisted projects are judged by a course external Committee of Experts.

Since A.Y. 2017/2018 up to nowadays he has been working as appointed Professor of the integrated teaching module of "Materials and Production" within the Basic Design Workshop of the Degree course in Design del Prodotto Industriale (Product Design Degree Course_First Year). (Class: L.4 ; Credits : 13)

In A.Y. 2014/15 and 2015/16 he has been teaching in the post-graduate Master in "Direzione del Cantiere e Direzione dei Lavori" (site and construction managment) at the Dept. Of Civil Engineering of The University of Ferrara (Resp. Prof. M. Biolcati Rinaldi).

He managed an intense doctoral and graduate training activity both as charged manager (Deputy Vice-Coordinator) and as PhD Programme Supervisor of an International PhD Programme and as teacher member of the Academic Board of the PhD programmes continuously since 2000.

Since 2000 to 2016 he has been member of the Academic Board of the national Doctorate in Architectural Technology (courses from XV to XXVIII) organized and coordinated by the Faculty/Departement of Architecture of Ferrara in consortium with IUAV (University of Venice – Italy), University of Bologna/ DAPT (Faculty of Architecture "Aldo Rossi" – Cesena, Italy), Free University of Bozen – Bolzano, Italy and University of Roma Tre, Rome, Italy.

He has been enrolled as teacher in the 2006 and 2007 Edition of the post-graduate training course titled "Architecture>Energy" organized by the Faculty of Architecture of Ferrara.

In 2011 he coordinated a public Seminar promoted by the Institute for Higher Studies of the

University of Ferrara, IUSS Ferrara 1391 titled "Sustainability and Architecture" in which he's one of the teachers.

From 2006 - 2011 he has been charged by the Academic Board and from the Coordinator of the PhD Programme Prof. G. Trippa as Deputy Vice-Coordinator of the Doctorate in Architectural Technology then, from 2012 to 2016, he has been Deputy Vice- Coordinator charged by the new Coordinator of the PhD Prof. R. Di Giulio and by the Academic Board.

In 2013 together with the Director of the Department of Architecture Prof. R. Di Giulio, he planned the organisation of the First International Doctorate of the Department of Architecture then titled International Doctorate in Architecture and Urban Planning (IDAUP).

The programme is based on an International Consortium Agreement with the Polis University of Tirana (AL) and as Associate Members the University of Malta as Associate Member its first cycle (from 29th. to 32 cycle), the Slovak University of Technology STU (Bratislava,SK) since 2014, University of Pécs, (Pécs, HUN) since 2015 and University do Minho (Guimaraes, POR) since 2017 (33rd cycle).

The International Doctorate Architecture and Urban Planning (IDAUP) was accredited for the first time in 2013 (29th cycle) then both by the Italian ministry MIUR/ANVUR and by the Public Agency for the Accreditation of Higher Education in Albania (2015) in its 30th cycle and following until today.

At this aim he takes part to the Albanian accreditation process and to meetings and interviews with the National Albanian Accreditation Committee charged for essential requisite verification.

He has been Tutor/Supervisor of dozen of Ph.D Thesis (national and international) of which some were declared Best Thesis of their Ph.D cycle and two recognized with the International Acknowledgements 'Nicolò Copernico' dedicated to Ph.D. fellows distinguished for innovative thesis in sciences and technologies both in the Italian PhD Programme in Architectural Technology and in the International Doctorate Programme IDAUP (Dr. Habibi S. PhD, 2016 and Dr. Pracucci A. PhD, 2018).

Scientific Committee/Panels Affiliations, Scientific Association Membership and Prizes or Contests Jury membership

Since 2006 has been charged as UniFe/Faculty delegate from Prof. G. Trippa, then from 2011, by the new PhD Coordinator Prof. R. Di Giulio, for the activities of OSDOTTA network between Universities aimed to share the results of Italian researches developed inside all the national PhD courses in the field of architectural technologies.

Since 2013 to nowadays he has been charged by the Academic Board and by the Coordinator as DA PhD Programme Supervisor and Deputy Vice-Coordinator IDAUP. The University of Ferrara/Department of Architecture (DA) is administrative IDAUP home institution.

He has been member of the Scientific Board of the first Decennial of the Faculty of Architecture of Ferrara. He has been also co-author of the scientific project, of the specific website (created for the Decennial titled Xfaf.it), chairman and lecturer in many international conferences organized for the Xfaf celebrations.

He has been member of the Scientific Board of the Second Decennial of the Faculty of Architecture of Ferrara XfafX titled Festival to Design today.

Since 2008 to 2013 he has been enrolled in the OSDOTTA Scientific Committee then in 2015 he joined the International Scientific Committee DOTTA in the OSDOTTA network

In 2004 he has been co-curator (with Arch. Gaia Magoni) of an exhibition titled "Quando l'Ateneo è città" displayed in the Rectorate of the University of Ferrara.

In March 2012 he has been scientific curator with Prof. Andrea Rinaldi of the XfaX Conference "Mario Zaffagnini, una scuola di architettura fondata sulle necessità dell'uomo". He was a speaker of the conference held in Palazzo Tassoni Estense seat of the Department of Architecture of the University of Ferrara.

Since its establishment, he has been member of the "Italian Association of Architectural Technology" / "Società Italiana della tecnologia dell'Architettura" (SITdA).

In 2019 he is invited member of the jury of the XIII Edition of the "International Prize for Sustainable Architecture" Fassa Bortolo together with Jury Chairman: Prof. Emeritus (TUM) Thomas Herzog, Prof. Arch. Anne Lacaton (Lacaton & Vassal, Paris, France), Arch. Xu Tiantian (DNA - Design And Architecture, Pechino, China). and Prof. Nicola Marzot, Jury Secretary (University of Ferrara, Italy).

Research activities

Academic Research Centres Memberships

Since its institution he has been member of the Interdepartmental Research Centre Architecture_Energy (Centro A>E) of the Department of Architecture (DA) at the University of Ferrara, Italy.

Since 2007 he has been member of the Research Laboratory Material Design (MD) (Resp. Prof. Alfonso Acocella) of the Department of Architecture (DA) where he operates in the columns Post-it, Annali (Annals) and as invited Referee for the scientific open source MD Journal.

From 2010-2013 and later in 2015 until now he has been member of the TeckneHub Research Laboratory of the Tecnopole of the University of Ferrara that take part in the High Technology Network of Emilia-Romagna.

National and International research activities (ongoing and carried out)

He worked on several research programs funded by private and public institutions, by MIUR and by the European Economic Community.

Among the Italian research programs he was enrolled in:

- ex MURST 60% "Rural building heritage of the Bolognese plain as historical memory of the agricultural landscape". Scientific Responsible Prof. M. Zaffagnini (1993-1996) then Prof. G. Trippa since 1996 to 1997.
- EX MURST 60% (2000/2001) " Technical instruments and methods for restoration and sustainable refurbishment of the rural building typologies of the bolognese and ferrarese plain" (Scient. Resp. Arch. P. Davoli).
- PRIN 2000, "Indici per lo sviluppo di piani e programmi di manutenzione diffusa in Edilizia". National Project Responsible Prof. Claudio Molinari, "Politecnico di Milano" Technical University. Enrolled in the local working group of the Dept. of Architecture of Ferrara (Local Scientific Responsible Prof. R. Di Giulio).
- PRIN 2001, "Metodi di garanzia per l'affidabilità della progettazione e della costruzione nelle opere edilizie". National scientific coordinator: Prof. V.A. Legnante, University of Florence (Italy). Enrolled in the local working group of the Dept. of Architecture of Ferrara (Local Scientific Responsible Prof. R. Di Giulio).
- PRIN 2003, "Criteri di valutazione e procedure di controllo delle condizioni di stress dovute alla morfologia, alle modalità di fruizione e alle condizioni ambientali di spazi confinati ad elevata sterilità". National scientific coordinator: Prof. R. Del Nord, University of Florence (Italy). Enrolled in

the local working group of the Dept. of Architecture of Ferrara (Local Scientific Responsible Prof. R. Di Giulio).

Among the research projects financed by European Economic Community ECC he was enrolled as:

- Co-author of the "Re-use manual for the enhancement of building heritage and delta landscape", Community initiative Leader II, with Regione Emilia Romagna, European Community and GAL "Delta 2000" Scientific Responsible Prof. G. Trippa. Enrolled as Responsible of the technological section. (finished in 2001);
- Project "Villas, stately homes and castles: compatible use, valorisation and creative management" – Community initiative Interreg IIIB (2000-2006) CADSES 3B074. Project Responsible for University of Ferrara – Dept. Of Architecture Prof. R. Di Giulio. Enrolled as member and Technical Group Coordinator of PP4/Ferrara (finished in 2006).

At present he's participating in:

- Department's of Architecture project "INCEPTION - Inclusive Cultural Heritage in Europe through 3D semantic modelling" which was nominated for the "Call Reflective-7-2014, Advanced 3D modeling for accessing and understanding European cultural assets", ranking first among 87 proposals. (Winner and Sc. Coordinator Prof. R. Di Giulio) ongoing activity (2015-2019).

Inside the activities financed by the Emilia-Romagna Region (2014-2020) he is working in the TeckneHub Research Laboratory of the Tecnopole of the University of Ferrara that take part in the High Technology Network of Emilia-Romagna in:

- Project "HABITAT – Home Assistance Based on Internet of Things (IoT) for AuTonomy" funded by Emilia-Romagna Region (POR-FESR 2014-2020) Ongoing activity.

Conferences, Congresses, Workshops attendance and Exhibitions org.

He takes part at tens among conferences, congresses (national and international) as speaker, chairman and discussant.

He operates in various Seminars and International Workshops both as member of their Scientific Panel/Committee and teacher and speaker (i.e. for the Italian SAIE expo in Bologna, Italy, MADE expo in Milan, Italy, SITdA Seminars and Conference, etc.).

In June 2012 he has been curator, together with Arch. Michele Ghirardelli, of an exhibition about the works and life of Prof. Mario Zaffagnini held in Bologna at the Monte di Bologna e Ravenna Foundation headquarters, then in Sept. 2012 at the Urban Centre (Sala Borsa) of the City of Bologna, Italy.

Scientific writings and multimedia/DVD works

He is author of more than 100 technical essays, articles and papers on books, Scientific Reviews and International Journals (some indexed) and Audio Video Supports, Multimedia CD-ROM, DVD, about restoration, refurbishment and sustainable re-use of historical buildings, technological innovation, underground architecture, energy efficiency of buildings and sustainable architecture.

He interviewed some protagonists of contemporary architecture and in particular Micheal Hopkins (2003), Eduardo Souto de Moura (2003), Dominique Perrault (2003) and Herman Kaufmann (2011).

In 2010 he wrote with Alberto Di Cintio and Elisa Segoni the plot of the DVD by Alberto Di Cintio dedicated to "Mario Zaffagnini" for the video series "I maestri dell'architettura e del Design" / "Masters of Architecture and Design" edited by c.s.i.a.f. of the University of Florence and its Department TAED "Pierluigi Spadolini".

Awards

In 1989 he won a scholarship to be enrolled in the academic course "Introduction to computer in design" (S.S. Fall 1989) held by Prof. Karen Kensek and Prof. Douglas Noble at the College of Environmental Design Department of Architecture of the University of California at Berkeley, CA, USA.

In 1999 he had a collaboration with the company Eventi Progetti Speciali (Bologna, Italy) for a Multimedia CD-ROM on the "Abbazia di S. Stefano in Bologna/ S. Stephen Abbey in Bologna" awarded with the Prix Moebius City of Lugano as Best product in the contest category Culture, Art and Literature.

Then in 2011 the CD-ROM (translated in 5 languages) competed also in the contest Prix Moebius International in Beijing (China).

In 2013 one of his design projects for a detachable pavillion for temporary exhibitions is Shortlisted in the Architectural International Contest The Plan/Volvo titled "Switch to pure Volvo – architectural contest" where were running more than 150, among architects and atelier, from all the world. The shortlisted design project is published in the international scientific review The Plan n.68/2013 and online in its website.

Editorial Board of Scientific Review and Journals Curatorship and Peer Review activities

Since 2000 to 2007 he has been editor of the architectural column "Building Technologies" in the reviews "Archingeo", "L'Ufficio Tecnico" and since 2008 of the column titled "Energy Efficiency and Sustainable Technologies for Buildings" in the scientific review "L'Ufficio Tecnico", edited by Maggioli Editore, Rimini, Italy.

In 2015 he was asked for a Referee (in double-blind peer review process) from the Journal of Technology for Architecture and Environment TECHNE.

In 2017 he was asked for a Referee (in double-blind peer review process) from the open access scientific review MD Journal.

Since 2018 he has been appointed in the Editorial Board of the Open Access scientific review MD Journal ISSN 2531-9477 (online).

In 2018 he was asked for some Referees (in double-blind peer review process) from the Scientific Journal Agathón, International Journal of Architecture, Art & Design an Open Access Journal ISSN 2464-9309 (print) 2532-683X (online).

Since 2018 he's member of International Board of Directors of Observatory Mediterranean Basin Series and of the Editorial Board Series OMB ISBN 978-9928-4459-8-8 (OMB Series) / 978-9928-4459-9-5 (V.4).

Freelance practice

He worked as freelance architect in Bologna (Italy) from 1993 to 2014.

He was author (alone or in professional partnership) of tens architectural and infrastructural designs in the fields of restoration, reuse and refurbishment of monumental historical buildings (also minor historical buildings), interior design, urban planning for freight villages/HUBs (intermodal and logistic centres), industrial and logistical buildings, office buildings, public urban park, infrastructural works such as roads planning, public cycles lanes and (cross) tollbooth areas and road acoustic barriers to mitigate freight and train traffic environmental noises.

Furthermore sometimes was construction manager for his works and – as licensed practicer - he managed all the fire engineering and all the safety measures for building workers (in planning phase) of almost his entire architectural industrial and infrastructural design production.