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Francesca Maria Ugliotti is currently Assistant Professor (RTD-A) of Drawing at Politecnico di Torino, Torino, Italy. She received both M.Sc. and PhD degrees at Politecnico di Torino in Building Engineering in 2011 and Urban and Regional Development in 2017, respectively. During the Academic Year 2015/2016, she spent a period in Malaysia as part of the Erasmus Mundus Exchange Program at the University of Kuala Lumpur with an industrial attachment with Telekom Malaysia. She also had a first-level Specializing Master in Real Estate Management at Università degli Studi di Torino in 2012. She is involved in various national funded projects focused on Smart digitalization of the built heritage and has received national awards for research activities. Her research interests concern: i) Building Information Modelling; ii) Smart and Resilient Cities; iii) Facility Management; iv) Multidimensional scenarios for the public and health sector; v) Software solutions for simulating, optimizing and visualizing energy data; vi) VAR for maintenance, communication, awareness-raising.

Personal information

First name / Surname	**Francesca Maria Ugliotti**
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Nationality	Italian
Data di nascita	19/03/1987, Borgosesia (VC)
Gender	Female
Web site	https://www.diseg.polito.it/en/personale/scheda/(nominativo)/francesca.ugliotti

Work experience

Dates	Since 05/2020
Occupation or position held	**Assistant Professor with time contract RTD-A of Drawing**
Main activities and responsibilities	• Technical coordination and participation in scientific research groups (see research project) • Member of the Building Engineering School • Member of the Department board • Member of the drawingTOthefuture Laboratory http://www.drawingtothefuture.polito.it/ • Teaching assistant of Master (Knowledge of the built heritage in the era of climate change) and Bachelor (Building drawing) of Science • Lecturer of the InfraBIM Manager II level master
Name and address of employer	Politecnico di Torino, Dept. of Building Engineering and Territorial Systems DISEG, Corso Duca degli Abruzzi 24, 10129 Torino (Italy)
Type of business or sector	Education /Academic Research

Dates	From 05/2018 to 01/2020
Occupation or position held	**Postdoctoral Research Fellow**
Main activities and responsibilities	• Technical coordination and participation in scientific research groups (see research project) • Teaching tutor of Bachelor (Drawing) of Science • Lecturer of the InfraBIM Manager II level master
Name and address of employer	Politecnico di Torino, Dept. of Building Engineering and Territorial Systems DISEG, Corso Duca degli Abruzzi 24, 10129 Torino (Italy)
Type of business or sector	Education /Academic Research

Dates	From 06/2016 to 04/2018
Occupation or position held	**Project Coordinator** - Engineering Services & Modelling
Main activities and responsibilities	• Coordination and optimization of Real Estate processes, implementation of collaborative processes and tools for sharing, visualization, and monitoring. • Development of information and communication strategies in the field of safety management of public events in open spaces and indoor events at Pala Alpitour in Turin, former Olympic site 2006.
Name and address of employer	BFORMS srl, Via Sant'Agostino 8, 10122 Torino (Italy)
Type of business or sector	Real Estate Engineering

Dates	01/04-2016
Occupation or position held	**Process and data analyst, BIM expert**
Main activities and responsibilities	• Processes and tools analysis for the definition of an Energy Management service within the suite of Telekom Malaysia services related to Smart Cities. • Support to the deployment of an energy monitoring tool and possible integrations with BIM models.
Name and address of employer	VADS Lyfe Sdn. Bhd - subsidiary of Telekom Malaysia, Kuala Lumpur (Malaysia)
Type of business or sector	Smart Services

Dates	From 03/2012 to 10/2014
Occupation or position held	**Research Fellow**
Main activities and responsibilities	• Methodological approach to the mapping and functional classification of the Politecnico di Torino campus aimed at the integrated management of facilities through the advanced Archibus platform.
Name and address of employer	Politecnico di Torino, Dept. of Building Engineering and Territorial Systems DISEG, Corso Duca degli Abruzzi 24, 10129 Torino (Italy)
Type of business or sector	Education /Academic Research

Education and training

Dates	2015-2017
Title of qualification awarded	**European Ph.D. in Urban and Regional Development** PhD scholarship funded by the Ministry of Education, University and Research (MIUR) within the Technologies for the Smart Community Cluster.
Principal subjects/occupational skills covered	• Technical coordination and participation in scientific research groups (see research project) • Abroad experience through Erasmus Mundus Exchange Program: academic attachment with the University of Kuala Lumpur and industrial attachment with Telekom Malaysia • Thesis: "BIM and Facility Management for smart data management and visualization", Supervisor: Prof. A. Osello, Final evaluation: Excellent
Name and type of organisation providing education and training	Interuniversity Ph.D. programme between Politecnico di Torino and Università degli Studi di Torino, Torino (Italy)

Dates	2021-2013
Title of qualification awarded	**I Level Master in "Management of Real Estate IV Edition"**
Principal subjects/occupational skills covered	• Thesis: "Smart Working: una nuova opportunità di incontro tra il Real Estate ed il Facility Management", Final evaluation: 110/110 cum laude, 8/09/2013
Name and type of organisation providing education and training	Università degli Studi di Torino - Scuola di Management, Via Ventimiglia 115, 10126 Torino (Italy)

Dates	09/2012
Title of qualification awarded	**Qualification to practice the profession of Engineer (State Examination)**
Name and type of organisation providing education and training	Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino (Italy)

Dates	2009-2011
Title of qualification awarded	**Master Degree in Building Engineering**
Principal subjects/occupational skills covered	• Thesis: "From Polito to Smart Polito: linee guida per una possibile trasformazione", Tutors: Prof. A. Osello, Ing. R. Borchiellini , Final evaluation: 110/110 cum laude, 6/12/2011
Name and type of organisation providing education and training	Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 Torino (Italy)

Communication and social skills	• Excellent attitude to collaborate with people since the university career, working in different groups in design and research activities, to always get the best results. • Ability to interact with all levels of the University hierarchy, technical and administrative structures, thanks to the working experience at the Politecnico di Torino. • Experience in interfacing with customers and external consultants for the implementation of several projects. • Good knowledge of English, spoken and written, thanks to the doctoral program carried out entirely in English and the period of mobility abroad during the Erasmus Mundus Program.

Organisational skills and competences	• Organized and determined person in pursuit of goals and meeting deadlines. • Ability to manage and coordinate research and working groups, operating in a transversal way both from the organizational and technical point of view, developed thanks to the Polytechnic's experience and external work activities. • Predisposition to precision and attention to details thanks to a dynamic character aimed at curiosity, trying to give the best contribution on every occasion.

Technical skills and competences	Involved in applied researches in the fields of) Building Information Modelling; ii) Smart and Resilient Cities; iii) Facility Management; iv) Multidimensional scenarios for the public and health sector; v) Software solutions for simulating, optimizing and visualizing energy data; vi) VAR for maintenance, communication, awareness-raising.

Research Project

Dates	10/2019 - ongoing
Project	**P.A.C.I. 4.0** funded by SIED S.p.A.
Objectives	Methodological setting of knowledge conservation processes and BIM mapping of the hydroelectric power plants heritage for the remote control of management and maintenance activities.
Dates	11/2020 – 07/2021
Project	**Energy BIM** funded by A&T PROGETTI S.R.L.
Objectives	BIM procedures definition for the management of the building and district built environment.
Dates	10/2019 – 03/2021
Project	**CANP – La Casa Nel Parco** indirect European funding
Objectives	Digital technologies investigation to support knowledge, design, participatory processes and user awareness for the healthcare system, considering the hospital setting, post-degree facilities, as well as at the patient's home. Testing innovative virtual reality therapies for patients with neuro-cognitive disorders.
Dates	11/2018 – 05/2020
Project	**Dal BIM (Building Information Modeling) al CIM (City Information Modeling)** funded by ACCA software S.p.A.
Objectives	Representation of acoustic phenomena through BIM systems at the building and urban scale. Definition of the Building Register and its acoustic components for digital information management of the building as built.
Dates	03/2017 – 10/2020
Project	**Juventus** funded by Juventus Football Club S.p.A.,
Objectives	Content definition of the parametric digital model of a stadium and data interoperability for Facility Management with Archibus platform.
Dates	01/2018 – 03/2019
Project	**A tutto tondo**
Objectives	Experimentation with digitalization tools and procedures that led to the creation of a tactile exhibition at the Gallery of Modern Art of Turin GAM with the aim of offering the visually impaired the opportunity to feel and touch some of the most important buildings of the city.
Dates	11/2014 – 12/2017
Project	**EEB** funded by Ministry of Education, University and Research (MIUR)
Objectives	Parametric BIM models and interoperability processes related to energy simulations and data visualization in augmented and virtual reality. Dissemination activities and user awareness, also conducted through the gamification approach with interactive maps that recall models and digital content on Smart City issues.
Dates	2016-2017
Project	**TOBIM** funded by Città di Torino
Objectives	Methodological setup of BIM digitalization and knowledge restoration of 30 public buildings of the City of Turin for management activities and energy assessments starting from the realization of BIM models.

Additional information	• 2021 Best Paper Award from 3D MODELING & BIM, Italy (2021)
	• IR20 Piemonte Innovation and Research 2020 Award, established by the Piedmont Region to enhance a system that is fundamental to the development of the territory. Progetto: CANP https://www.regione.piemonte.it/web/pinforma/notizie/vincitori-ir20-premio-piemonte-chi-fa-innovazione-ricerca
	• BIM & Digital Award 2020 BIM&Digital Award from Digital&BIM Italy, Italy (2020) First classified in CATEGORY 9 - Industrial Research Project: Digital serving humans in the healthcare sector https://www.concorsiarchibo.eu/digitalandbimawards-2020/home
	• Quality Award for Research from Politecnico di Torino, Italy (2018).
	• BIM & Digital Award 2017 BIM&Digital Award from Digital&BIM Italy, Italy (2017)
	• Optime Award from Unione Industriale di Torino, Italy (2012)
	• Member of the Unione Italiana per il Disegno Scientific Society since 2020

Publications	Author or co-authors of more than 50 papers on International Journals or presented to International Conferences. https://iris.polito.it/browse?type=author&authority=rp24116&authority_lang=en#.X8O6Fc1KjIV
Date	14/10/2021
Signature	*Francesca Maria Ugliotti*