

Curriculum vitae with track record: Rita Ugarelli

PERSONAL INFORMATION

Family name, First name: UGARELLI RITA

Date of birth: 24.02.1973

Sex: F

Nationality: ITALIAN

EDUCATION

- 2008 PhD: Disputation date: 27.05.2008.
Civil Engineering/DISTART, Bologna University, Italy
- 2001 Masters' degree
Civil Engineering/DISTART, Bologna University, Italy

CURRENT AND PREVIOUS POSITIONS

- Since 2018 Chief Scientist, SINTEF – Community, Norway
- Since 2010, Adjunct Professor, Norwegian University of Science and Technology (NTNU)-
Department of Hydraulic and Environmental Engineering, Norway
- 2011-2018 Senior Scientist, SINTEF – Infrastructure, Water and Environment, Norway
- 2009-2011 Research Scientist, SINTEF – Infrastructure, Water and Environment, Norway
- 2008-2009 Researcher and lecturer, Bologna University, DISTART department, Italy
- 2006-2007 20% position, SINTEF – Infrastructure, Water and Environment, Norway
- 2005-2008 PhD student and lecturer, Bologna University - DISTART department, Italy
- 2005-2008 Researcher, Ferrara University (L.A.R.A. project), Italy
- 2001-2006 Research assistant and lecturer, Bologna University, DISTART department, Italy

FELLOWSHIPS, AWARDS AND PRIZES

- 2004 "Ing. Icilio Tornani " award from the University of Bologna for the best Mater thesis in
Civil Engineering, hydraulics topic.

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

- 2013-2019 Number of PhD completed: 1; Number of PhD ongoing: 1, NTNU - Department of
Hydraulic and Environmental Engineering, Norway
- 2018 Number of PhD completed: 1, Free University of Bolzano, Italy.
- 2001-2019 Number of Master Students: 22, Bologna University, DISTART department, Italy
- 2001-2019 Number of Master Students: 20, NTNU - Department of Hydraulic and Environmental
Engineering, Norway
- 2015-2016 Supervised Master students as TUCEP Erasmus, TRAINEESHIPS at SINTEF: 3

TEACHING ACTIVITIES

- Since 2013 Responsible for the doctoral course on Infrastructure Asset Management applied to
urban water systems, NTNU - Department of Hydraulic and Environmental
Engineering, Norway.
- Since 2010 Lecturer at VM8205 - Urban Water Asset Management; TVM 4126 "Water and
wastewater engineering specialization course" and TVM 4141 "Advance Urban Water
Systems"; NTNU - Department of Hydraulic and Environmental Engineering, Norway
- 2008-2009 Lecturer at the course "Risk and Uncertainty in Hydraulic Systems" for the degree in
Civil Engineering (International course with Columbia University), Bologna University,
DISTART department, Italy
- 2005-2009 Lecturer in Hydraulics for Civil and Environmental Engineers (70hours per academic
year), Bologna University, DISTART department, Italy

ORGANISATION OF SCIENTIFIC MEETINGS

2019	Convener of "Water resources policy, management, and society: transdisciplinary approaches to urban-rural water systems", at EGU General Assembly 2019
2018	NATO CYBERWATER 2018 – Water Safety Advanced Research Workshop
2017	Member of the Steering Committee of LESAM Conference (IWA)
Since 2013	Member of the Scientific Committee for LESAM Conference (IWA)
2011	Member of the Scientific Committee of CCWI 2011 (Computing and Control for the Water Industry 2011)

INSTITUTIONAL RESPONSIBILITIES

2019	External scientific reviewers of appointment of Thomas Petersson as professor at Chalmers, Sweden.
2018	Member of the evaluation panel for associate professor position in urban water systems at NTNU - Department of Hydraulic and Environmental Engineering, Norway.
2016	External scientific reviewers of appointment of Rafet ATAOU, IRSTEA, France.
2014	Examination of PhD thesis, Valeria Puleo, University of Palermo, Italy.

PROJECT MANAGEMENT EXPERIENCE

2017-2021	H2020 project STOP-IT "Strategic, Tactical, Operational Protection of water Infrastructure against cyber-physical Threats" dealing with security of water critical infrastructure (2017-2021) - (€9.616.000) (https://stop-it-project.eu/). <i>Role: Project Coordinator</i>
2015-2017	E3 – (NOK 8 000 000) focused on water demand management for the growing city of Oslo (funded by national research council). <i>Role: Project Manager</i>
2013-2017	DiVA (DI-gital VA-forvaltning – NOK 10 000 000) aiming at developing a tool for digital water management for private consultant companies (funded by national research council) <i>Role: Scientific Coordinator</i>
2013-2017	EU FP7 project "Demonstrate that Ecosystem Services are Enabling Innovation in the Water Sector (DESSIN) (Budget (for SINTEF): € 1 161 651) <i>Role: Work Area Leader</i>
2014-2016	InnoWatING - Innovation in Water Infrastructure – New Generation (Budget NOK 5000000) to introduce smart networks in Norway and developing innovating conditions assessment technologies (knowledge transfer from oil & gas industry) (funded by national research council) <i>Role: Project Manager</i>
2011-2015	EU FP7 project "TRansitions to the Urban water Services of Tomorrow" (www.trusti.net/) (Budget (for SINTEF): € 849 650) - the project points the topic of "saving" resources (water, energy, money) while managing the whole urban water cycle and reducing carbon footprint. <i>Role: WP leader and Project Manager for SINTEF</i>
2012-2014	SMS (Secure Monitored Service) from Oslo VAV (Budget: NOK 7 500 500): to improve efficiency while ensuring security in the monitoring and control (inspections and ICT solutions) of the integrated water system of Oslo (funded by national research council). <i>Role: Project Manager</i>
2014-2018	EU FP7 project "Preparing for extreme and rare events in coastal regions" (PEARL) (total budget: 6,474,834.28 €) aims at developing adaptive risk management strategies for coastal communities focusing on extreme hydro-meteorological events. <i>Role: Project Partner and project manager for SINTEF.</i>

COMMISSIONS OF TRUST

2019	Co-Editor of ASCE J. Environ. Eng. Special Collection "Physical and cyber safety in critical water infrastructure"
2017	Editorial board of "Urban Water"
2017-2018	Member of the independent International Expert Panel for the first and second step and full-proposal stage of the JPI - SUGI-FEW-Nexus Call
2016	Reviewer for TISCA 2016 and Reviewer for Research programme of National Dutch R&D projects.
2015	Reviewer for Technology Foundation STW OTP research proposals.
Since 2009	Reviewer for the scientific journal "Water Science & Technology", "Water resource planning", "Journal of Infrastructure systems", "Hydroinformatics", among all.
2007-2012	Auditor for IWA at IWA International Young Water Professionals
2007	Reviewer for Czech Research Council on the project "Risk of hydraulic malfunction of sewer systems due to deterioration of network", Registration number: 103/07/0264.
2006	Member of the Marie Curie Project Evaluation Committee under the "Operational Maintenance and Rehabilitation of Urban Water Systems" (OPERA).
2006	Member of the Evaluation Committee of the Czech Research Council "CARE-S in Praha", Registration number: 103/08/0134

MEMBERSHIPS OF ACADEMIES / SCIENTIFIC SOCIETIES

2019	Co-Leader of the Cybersecurity action of the ICT4Water cluster (EASME) Action Plan
2016	Secretariat of ARC, Aqua Research Collaboration, https://www.arc-online.eu/
Since 2009	Member of the Technical Commission of the EU – Water Europe
Since 2005	IWA member

MAJOR COLLABORATIONS

Having been involved as active partner in 7 EU funded projects, Rita has a very extensive international network involving R&D EU Institutes, water industry (public and private) and international associations. Below a list of selected most relevant closer partners is provided, but not exhaustive:

R&D: LNEC and Technical University of Lisbon (Portugal), IWW, Ecologic Institute gGmbH, TU Dresden, University of Duisburg-Essen (Germany), ITA. Universitat Politècnica De València, CETAQUA, EURECAT (Spain), TECHNION (Israel), NTUA and ICCS (Greece), KIOS (Cyprus), INSA, IRSTEA (France), KWR, Deltares (The Netherlands), Luleå University (Sweden), Bologna University, Politecnico of Bari, Trento and Bolzano University, Palermo University, Politecnico of Naples, TU Catania, Perugia University, Ferrara University, Politecnico of Milan (Italy), TU Prague (Czech rep), Budapest University of Technology and Economics (Hungary), Tallin University (Finland), Fachhochschule Nordwestschweiz (Switzerland), Cranfield University, The University Of Exeter (UK).

Track record

The distribution on different types of publications is the following:

- 49 journal publications
- 1 research monographs
- 2 published book chapters
- 27 conference papers published in peer reviewed proceedings

Only peer-reviewed publications are listed. In addition to these publications comes more than 50 research reports and conference presentations. The total number of citations (Google Scholar) of my publications is 485, with an h-index of 12 and an i10-index of 16 (at 30.08.2019).

A total of 77 publications are listed in Cristin:

<https://wo.cristin.no/as/WebObjects/cristin.woa/wo/18.Profil.29.25.2.3.20.1>

The ten publications from the last 5 years with the highest relevance for the candidature are the following:

1. Berardi, Luigi; Simone, Antonietta; Laucelli, Daniele; Ugarelli, Rita Maria; Giustolisi, Orazio (2018). Relevance of hydraulic modelling in planning and operating real-time pressure control: Case of Opegård municipality. *Journal of Hydroinformatics* 2018 ;Volume 20.(3) p. 535-550
2. Bruaset, S., Sægrov, S., Ugarelli, R. 2018. Performance based modelling of long-term deterioration to support rehabilitation and investment decisions in drinking water distribution systems. *Urban Water Journal* 2018; Volume 15.(1) p. 46-52
3. D' Ercole, Marianna; Righetti, Maurizio; Raspati, Gema Sakti; Bertola, Paolo; Ugarelli, Rita Maria (2018) Rehabilitation planning of water distribution network through a reliability-based risk assessment. *Water* 2018; Volume 10:277.(3) p. 1-15
4. Ugarelli, Rita Maria; Koti, Juliane; Bonet, Enric; Makropoulos, Christos; Caubet, Juan; Camarinopoulos, Stephanos; Bimpas, Manthos; Ahmadi, Mehdi; Zimmermann, Lisa; Jaatun, Martin Gilje (2018). STOP-IT - Strategic, Tactical, Operational Protection of Water Infrastructure Against Cyber-Physical Threats. 13th International Conference on Hydroinformatics; 2018-07-01 - 2018-07-06.
5. Giustolisi, O., Ugarelli, R. M., Berardi, L. Laucelli, D., Simone, A (2017). Strategies for the electric regulation of pressure control valves. *Journal of Hydroinformatics* 2017; VAVis.L_Volume 19.(5) VAVis.T_SideForkortelse621-639
6. Rokstad, M. M.; Ugarelli, R. M. (2017). Investigation of the Ability to Accurately Estimate Background Leakage Parameters in WDS Network Simulation Models. *Journal of water resources planning and management* 2017; VAVis.L_Volum 143.(4)
7. Morley, Mark; Behzadian, Kourosh; Kapelan, Zoran; Ugarelli, Rita Maria. Decision support system for metabolism-based transition to urban water systems of tomorrow. *Water Science and Technology: Water Supply* 2016; Volume 16.(3) p. 855-863
8. Campisano, A.; Modica, C.; Reitano, S.; Ugarelli, Rita Maria; Bagherian, S. (2016). Field-Oriented Methodology for Real-Time Pressure Control to Reduce Leakage in Water Distribution Networks. *Journal of water resources planning and management* 2016 ;Volume 142.(12)
9. Rokstad, M.M., Ugarelli, R.M. & Sægrov, S. (2015). Improving data collection strategies and infrastructure asset management tool utilization through cost benefit considerations. *Urban Water Journal*, 1-17. DOI:10.1080/1573062X.2015.1024692
10. Rokstad, M.M. & Ugarelli, R.M. (2015). Minimising the total cost of renewal and risk of water infrastructure assets by grouping renewal interventions. *Reliability Engineering & System Safety*, 142. DOI:10.1016/j.res.2015.05.014