PERSONAL INFORMATION

Family name, First name: Goia, Francesco

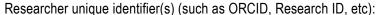
Date of birth: 22.07.1983

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https://www.researchgate.net/profile/Francesco_Goia

Francesco Goia is Associate Professor in Building Physics at the Faculty of Architecture and Design, Norwegian University of Science and Technology. He holds a Ph.D. in Energetics from the Polytechnic University of Turin and a co-jont Ph.D. in Architecture from the Norwegian University of Science and Technology.

Francesco is a passionate for technology and innovation and works to promote a more sustainable built environment. He was educated in the field of architectural engineering and architecture (B.Sc. cum laude, 2005; M.Sc. cum laude, 2008) at the Polytechnic University of Turin and Polytechnic University of Milan (joint M.Sc.), Italy. He also obtained the Diploma from the High Polytechnic School (Alta Scuola Politecnica) on Management of innovation projects in complex settings. Further specializations include a master in Materials for Energy and Environment (2010).

He has been working primarily at the Zero Emission Buildings Research Centre and at the Dept. of Energy of the Polytechnic University of Turin. Other work experiences prior and during the Ph.D. include consultant and research advisor for a façade engineering company and a research institute, instructor in building physics and building technology at the Polytechnic University of Turin, students supervision (B.Sc./M.Sc. level) for diploma thesis. As a postdoc, he was in charge of designing and implementing the building equipment, the monitoring and the control systems for two test buildings within the ZEB centre.

His main research activity concerns the ideation and assessment of strategies, technologies and systems for energy efficient buildings, with a focus on the dynamic behaviour and operation of building envelope components and integration of technologies and systems for renewable energy source harvesting. He is and has been involved in several experimental, laboratory and numerical/modelling activities aimed at assessing new technologies for responsive buildings, for solar energy and daylighting exploitation and for energy management in buildings.

The list of his technical and scientific expertise includes: thermal and energy analysis of buildings, energy management techniques and energy rating; environmental monitoring and building controls, thermal comfort and indoor air quality, systems and equipment for HVAC, lighting and solar energy exploitation; artificial light and daylight calculation and design; design of experiments and data analysis techniques, optical and thermo-physical properties characterization; mathematical modelling of physical and building physics phenomena; numerical simulations.

He is co-author of more than 50 publications, including research articles published in international, peer-reviewed journals; he has been and is an active member of different IEA Annex/Task groups and COST actions. He is a review for relevant peer-review scientific journals in the field of energy, environment and construction.

CURRENT AND PREVIOUS POSITIONS

2016-2017 Group Leader (Faggruppeleder) Energy and Environment

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway

2015- Associate Professor

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway

2014-2015 Post-Doctoral Research Fellow

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway

2010-2013 PhD candidate (Joint PhD degree)

Department of Energy, Polytechnic University of Turin, Italy

and

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway

2011-2012 Research Advisor / Internship (part time)

SINTEF Building and Infrastructure, Norway



2009-2010 Researcher (Grant)

Department of Energy, Polytechnic University of Turin, Italy

EDUCATION

2005

2013 PhD (Joint PhD degree)

Department of Energy, Polytechnic University of Turin, Italy

and

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway,

2010 Master in Materials for Energy and Environment

Faculty of Mathematics, Physics and Natural sciences, The University of Eastern Piedmont "Amedeo

Avogadro", Italy

2008 Diploma

Alta Scuola Politecnica, Italy

2008 MSc in Architecture (architecture and construction engineering class) (Joint degree)

Second Faculty of Architecture, Polytechnic University of Turin, Italy and Faculty of Architecture, Polytechnic University of Milan, Italy BSc in Architecture (architecture and architectural engineering class)

Second Faculty of Architecture, Polytechnic University of Turin, Italy

FELLOWSHIPS AND AWARDS

2014-2015 Post-Doc fellowship within the Research Centre on Zero Emission Buildings, Faculty of Architecture

and Design, Norwegian University of Science and Technology, Norway

2011-2013 PhD fellowship within the Research Centre on Zero Emission Buildings, Faculty of Architecture and

Design, Norwegian University of Science and Technology, Norway

2010-2012 PhD fellowship from the Italian Ministry of Education, Universities and Research, Doctoral School,

Polytechnic University of Turin, Italy

2009-2010 Research grant from ISI Foundation – Institute for Scientific Interchange, Italy

2005-2008 Studentship (for MSc and Diploma) from Alta Scuola Politecnica, Italy

2006 Studentship (for Joint MSc degree with University of Belgrano, Argentina), Polytechnic University of

Turin, Italy – *turned down*

2004 Erasmus fellowship for student mobility to Polytechnic University of Catalunia, Spain, from Polytechnic

University of Turin, Italy

MOBILITY

2010-2013 Joint PhD degree (2 years in Norway, 2 years in Italy)

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway

and Department of Energy, Polytechnic University of Turin, Italy

2008 Master thesis at Façade research group, Delft University of Technology, The Netherland

2004 Erasmus (one semester) at Polytechnic University of Catalunia, Spain

SUPERVISION OF GRADUATE STUDENTS AND RESEARCH FELLOWS

2017- 1 Postdoc and 1 PhD (from August 2017)

2016- 1 Postdoc and 1 PhD

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway

2010- 15 Master Students/Bachelor students/Interns

Faculty of Architecture and Design, Norwegian University of Science and Technology, Norway

and Department of Energy, Polytechnic University of Turin, Italy

TEACHING ACTIVITIES

2016- Lecturer – Integrated Energy Design, Faculty of Architecture and Design, Norwegian University of

Science and Technology, Norway

2015- Lecturer and Course coordinator – Building physics and materials, Faculty of Architecture and

design, Norwegian University of Science and Technology, Norway

2012 Lecturer – Thermodynamics and Heat Transfer for Engineers, Faculty of Engineering, Polytechnic

University of Turin, Italy

2011 Lecturer – Concept and strategies in sustainable architecture, Faculty of Architecture and Design,

Norwegian University of Science and Technology, Norway

2010 Lecturer – Building physics, Faculty of Architecture, Polytechnic University of Turin, Italy

2008-2009 Lecturer – Technological culture in design, Faculty of Architecture, Polytechnic University of Turin,

Italy

INSTITUTIONAL RESPONSIBILITIES

2017 Member of the Department's steering group

Department of Architecture and Technology, Faculty of Architecture and Design, Norwegian University

of Science and Technology

2016-2017 Leader (faggruppeleder) for the Group Energy & Environment

Faculty of Architecture and Design, Norwegian University of Science and Technology

2016- Academic coordinator for the mobility programme for doctoral students between NTNU and BUTE

(Hungay)

Faculty of Architecture and Design, Norwegian University of Science and Technology

2014- Country representative and Member of the Core Action Group (steering committee) of COST Action TU

1403

BIBLIOMETRIC INDICATORS

H-index 11 (source: SCOPUS) / 13 (source: Google Scholar).
Total citations 295 (source: SCOPUS) / 510 (source: Google Scholar)

ACADEMIC HABILITATIONS

2016 Associate Professorship competence in Building and Construction Engineering (Sustainable and high

performance buildings), Faculty of Engineering Science and Technology at the Norwegian University of

Science and Technology, Norway.

2016 Associate Professorship competence in Building Physics and Materials, Faculty of Technology, Art and

Design. Oslo and Akerhus University College of Applied Science, Norway

2015 Associate Professorship competence in Building Physics, Faculty of Architecture and Design,

Norwegian University of Science and Technology, Norway

2013 Venia Docendi at the Norwegian University of Science and Technology, Norway

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2013- Member of IBPSA-Nordic, the regional affiliate of IBPSA, the International Building Performance

Simulation Association

2012- Member of the International Building Physics Association

COMMISSIONS OF TRUST

2017 Scientific committee member of Ne – xt Facades – International Conference Building Envelope Design

and Technology

2016- Expert registered at the European Commission for the field of Energy and Buildings.

2016- Scientific committee member of NSB2017 - 11th Nordic Symposium on Building Physics.

2015 Scientific advisor and reviewer for the Croatian Science Foundation Scientific advisor and reviewer for the Latvian Science Council

2010- Reviewer for several international conferences and for the following journals: Applied Energy,

Building and Environment, Energy, Energy and Buildings, Energy Efficiency, Journal of Architectural Engineering, Journal of Building Engineering, Solar Energy, Sustainable Energy Technologies and

Assessments

RECENT PROJECTS AND INTERNATIONAL COLLABORATIONS

2017- NTNU Outstanding Research Fellows Programme, Participant, Personal budget: 0.8 MNOK 2017- REINVENT Project, Principal Investigator, Project manager, Total budget: 10.5 MNOK

2016- SKINTECH Project, WP Leader, Total budget: 9.2 MNOK

2016- IEA-SHC Task 56 "Building Integrated Solar Envelope Systems for HVAC and Lighting", Participant

2015- IEA-EBC Annex 67 "Energy Flexible Buildings", Participant and Action Leader

2014- COST Action TU1403 "Adaptive Facades Network", Country representative, Member of the Core

Action Group (steering committee), WG co-chair.

2013-2015 ZEB Test Cells Laboratory, Task Leader, Total budget: (confidential) ZEB Living Laboratory, Task Leader, Total budget: (confidential)

CAREER BREAKS

Career break of a 132 equivalent days in 2014 for paternity leave. Part of the career break was on a 50% part-time leave, and part on a 100% leave.

LANGUAGE COMPETENCE

Mother tongue(s) Italian Other languages(s)

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C1
Spanish	B1	B1	B1	B1	B1
French	A1	A2	A1	A1	A1
Hungarian	A2	A1	A2	A1	A1
Norwegian	B2/C1	B2/C1	B2/C1	B2/C1	B2/C1

SELECTED PEER-REVIEWED PUBLICATIONS (full list available at: http://orcid.org/0000-0002-1886-4830)

- Giovannini, L, Goia, F, Verso, VRML, Serra, V. Energy Procedia 111, pp. 357-366, 2017. DOI: 10.1016/j.eqypro.2017.03.197
- H. Elarga, F. Goia, A. Zarrella, A. Dal Monte, E. Benini. Solar Energy 136, pp. 112-124, 2016. DOI: 10.1016/j.solener.2016.06.074
- 3. G. Serale, **F. Goia**, M. Perino. *Solar Energy* 134, pp. 429-444, 2016. DOI: 10.1016/j.solener.2016.04.030
- F. Favoino, F. Goia, M. Perino, V. Serra. Solar Energy 133, pp. 226-248, 2016. DOI: 10.1016/j.solener.2016.03.031
- F. Goia. Solar Energy 132, pp. 467-492, 2016. DOI: 10.1016/j.solener.2016.03.031
- F. Goia, E. Boccaleri. Energy and Buildings 119 (9)
 pp. 41–50, 2016. DOI: 10.1016/j.enbuild.2016.03.007
- F. Goia, M. Zinzi, E. Carnielo, V. Serra. Energy and Buildings 87 (1) pp. 302–312, 2015. DOI: 10.1016/j.enbuild.2014.11.019
- F. Goia, B. Time, A. Gustavsen. Energy Procedia 78, pp. 2626–2631, 2015. DOI: 10.1016/j.egypro.2015.11.328
- L. Bianco, F. Goia, V. Serra, M. Zinzi. Energy Procedia 78, pp. 116–121, 2015. DOI: 10.1016/j.egypro.2015.11.124
- S. Grynning, F. Goia, B. Time. Energy Procedia 78, pp. 85–90, 2015. DOI: 10.1016/j.egypro.2015.11.119
- 11. **F. Goia**, M. Perino, V. Serra. *Solar Energy* 100 (2) pp. 217–233, 2014. DOI: 10.1016/j.solener.2013.12.002
- 12. **F. Goia**, Y. Cascone, *Energy Procedia* 58 pp. 185–192, 2014. DOI: 10.1016/j.egypro.2014.10.427
- F.Goia, L. Bianco, Y. Cascone, V. Serra, M. Perino. *Energy Procedia* 48 pp. 1272–1281, 2014. DOI: 10.1016/j.egypro.2014.02.144
- G. Serale, S. Baronetto, F. Goia, M. Perino. *Energy Procedia* 48 pp. 223–232, 2014. DOI: 10.1016/j.egypro.2014.02.027

- F. Goia, L. Bianco, M. Perino, V. Serra. *Energy Procedia* 48 pp. 1262 1271, 2014. DOI: 10.1016/j.egypro.2014.02.143
- S. Baronetto, G. Serale, F. Goia, M. Perino. Lecture Notes in Electrical Engineering 263 (3) pp. 13–20, 2014. DOI: 10.1007/978-3-642-39578-9_2
- F. Goia, L. Bianco, V. Serra, M. Perino. Lecture Notes in Electrical Engineering 263 (3) pp. 21–28, 2014. DOI: 10.1007/978-3-642-39578-9_3
- F. Favoino, F. Goia, M. Perino, V. Serra. Energy and Buildings 68, Part B (1) pp. 647–659, 2014. DOI: 10.1016/j.enbuild.2013.08.066
- S. Grynning, F. Goia, E. Rognvik, B. Time. *Journal of Sustainable Built Environment* 2 (1) pp 56–64, 2013.
 DOI: 10.1016/j.ijsbe.2013.09.003
- F. Goia, M. Haase, M. Perino. Applied Energy 108 (8)
 pp. 515–527, 2013. DOI:
 10.1016/j.apenergy.2013.02.063
- F. Goia, M. Perino, V. Serra. Energy and Buildings 60 (5) pp. 442–452, 2013. DOI: 10.1016/j.enbuild.2013.01.029
- 22. **F. Goia**.. Frontiers of Architectural Research 1 (4) pp. 341–347, 2012. DOI: 10.1016/j.foar.2012.10.002.
- 23. **F. Goia**, M. Perino, M. Haase. *Energy and Buildings* 54 (11) pp. 141–153, 2012. DOI: 10.1016/j.enbuild.2012.07.036
- 24. **F. Goia**, M. Zinzi, E. Carnielo, V. Serra. *Energy Procedia* 30 pp. 428–437, 2012. DOI: 10.1016/j.egypro.2012.11.051
- F. Goia, M. Perino, V. Serra, F. Zanghirella. *Journal of Green Building* 5 (4) pp. 121–136, 2010. DOI: 10.3992/jqb.5.4.121