

CURRICULUM VITAE

Francesca Abastante studies Architecture in Italy (PoliTO). In April 2013, she holds a Ph.D. in Regional and Urban Studies with the thesis named “The role of the Multicriteria Decision Analyses in decision processes for territorial transformation” after 3 years of research. She is currently Assistant Professor (RTDb) with the InterUniversity Department of Regional and Urban Studies and Planning (DIST) at the PoliTO. She is a research member of the department research project project QUICHE based on the assessment of SDG11 and of the European projects SCORE (2018/2021) and MOLOC (subcontractor 2018-2020). Moreover, she is an active member of the ERASMUS+ project LOTUS (2019-2022). Her present research focuses on studies related to Multicriteria Decision Analysis (MCDA) and decision processes in territorial projects with the attention to environmental and social sustainability. Her skills are particularly related to the research aimed at integrating MCDA, financial analysis and visual tools to support real-time decision processes. She has been scientific responsible of different national projects as BIG/OPEN DATA AND SPATIAL ANALYTICS, CHIOMONTE 2025 and CHIOMONTE SMART as well as a research member of several European projects as CODE24 (2010-2013), DIMMER (2013-2017) and SHAPE ENERGY (2017/2019). Moreover, she has been an active co-operator of the “Housing Program” for the Compagnia di San Paolo (CSP - programmahousing.it) focusing on social and energy sustainability aspects with the aim of answering to the growing housing demand. She is co-author of numerous scientific papers.

- **CURRENT POSITION**

2019 – present: Assistant professor in Project Appraisal (RTDb)
DIST, PoliTO

- **MAIN RESEARCH PROJECTS**

2020-present: QUICHE_ Quali misurazioni per quali politiche. Verso il Sustainable Development Goal 11 (PoliTO, DIST)

Member of the group (Coordinator: I. Lami).

Description: QUICHE investigates the idea that innovation is necessary in the merit and method of pursuing the objectives defined by the 2030 Agenda. The project intends to develop a critical reflection on the practices in place in terms of pursuing the objectives of the SDG11 and on how these have changed and will change in relation to the management of the pandemic and its effects. QUICHE aims to provide the public sector with new spatialized indicators organized in a database.

2018-present: SCORE_Supporting Consumer Co-Ownership in Renewable Energies (PoliTO, DIST)

Role: member of the group (Coordinator: P. Lombardi).

Description: the SCORE project is based on the logic of the Consumer Stock Ownership Plan (CSOP), which is an inclusive financing technique based on established best practices to facilitate scalable investments with strategic partners. The objectives of the SCORE project are: facilitate consumers to become prosumers; show the positive impact of co-ownership on consumer behavior; empower municipalities and consumers; facilitate the development of new legal and financial solutions to stimulate the participation of low-income households.

2019-2020: Chiomonte SMART (PoliTO, DIST)

Role: Scientific coordinator of the research activities.

Description: Starting from the project “Chiomonte 2025”, this project aims at defining development scenarios for the territory of Chiomonte (Susa Valley, Italy) through a stakeholders-oriented approach based on MCDA.

2018-2019: Chiomonte 2025_Azioni per lo sviluppo territoriale (PoliTO, DIST)

Role: Scientific coordinator of the research activities.

Description: The main objective of Chiomonte 2025 is to define and implement a sustainable economic, social and environmental path for the territory of Chiomonte (Susa Valley, Italy).

2018-2020: MOLOC: Low carbon morphology (PoliTO, DIST, sub-contract)

Role: member of the group (Coordinator: P. Lombardi; L. Mazza).

Description: the aim of the MOLOC project is to develop a new city building approach associating quality of life and energy efficiency. MOLOC explored the brakes that limit the impact of local policies and actions in their ambitions to change current urban morphologies in the light of sustainable urban development.

2018 – 2020: Big/open Data and Spatial Analytics (PoliTO, DIST)

Role: Scientific coordinator of the research activities.

Description: the project aimed at developing an integrated methodology based on big/open data analysis and multicriteria analysis (MCDA).

2018 – 2020: Forme, Regole e Valori (PoliTO, DIST)

Role: member of the group (Coordinator: I. Lami).

Description: the project aimed at analysing the needed conditions in order to activate urbane regenerations activities considering low intensity of financial capital and high intensity of cultural and human factors.

2017 – 2019: Shape Energy (H2020) (PoliTO, DIST)

Role: member of the group (Coordinator: P. Lombardi).

Description: SHAPE-ENERGY aimed at developing Europe's expertise in using and applying energy-SSH.

2016 – 2017: Energy Efficiency of Buildings (EEB) (PoliTO, DIST)

Role: member of the group (Coordinator: P. Lombardi).

Description: The project aimed at exploring energy consumption patterns at urban scale providing a methodology for evaluating different urban energy retrofiting scenarios based on MCDA in the context of sustainable urban planning.

2013 – 2017: District Information Modelling and Management for Energy Reduction -DIMMER- (7st fm p.) (PoliTO, DIST)

Role: member of the research group (Coordinator: P. Lombardi).

Description: The DIMMER consisted of a software system destined to energy managers and public authorities to monitor district energy data as well as simulate and implement energy management policies and scenarios at district level tested so in Turin (Italy) and Manchester (UK).

2014 – 2016: InViTO 3.0 (Interactive Visualization Tool) (Higher Institute on Territorial Systems for Innovation (SITI))

Role: member of the research group (Coordinator: E. Masala, S. Pensa).

Description: The Interactive Visualisation Tool (InViTo) aimed at guiding users in building their spatial knowledge and awareness by means of high interaction with dynamic maps, in order to allow decision-makers to be informed before making their choices (urbantoolbox.it).

2010 – 2013: Corridor 24 Development Strategies -CODE24- (Interreg NWE)

Role: member of the group (Coordinator: I. Lami).

Description: The EU-funded project "Code24", approved under the Strategic Initiatives Framework of the Interreg IVB NWE program (code-24.eu), aimed at a coordinated transnational strategy to support the improvement and the development of this railway corridor. Within the CODE24 project, the main activities conducted were the study and application of MCDA and tools to support dialogue and analysis in a group setting.

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2020 – present: Co-supervisor of the Ph.D candidate M. Gaballo (PoliTO).

2020: Supervisor of the research scholarship of M. Gaballo (PoliTO).

2018 – 2021: Supervisor of the Ph.D candidate S. Cravero (PoliTO) and L. Schuman (PolyU).

- **HOLDER OF UNIVERSITY COURSES**

2018-present:

"Research essay on Real Estate Evaluation" (ICAR/22). Bachelor's degree in Architecture. PoliTO.

“Real Estate Evaluation” (ICAR/22) within the Atelier “Architecture and Urban Economics” (Holder: M.Trisciuglio/F.Frassoldati). Master’s degree in Architecture Construction City. PoliTO.

“Economic evaluation of projects” (ICAR/22). Master’s degree in Architecture. POLIMI.

2018-2019:

“Valutazione e fattibilità economica” (ICAR/22) within the Atelier “Pianificare la città” (Holder: CA. Barbieri) Master’s degree in Territorial, Urban, Environmental and Landscape Planning. PoliTO, DIST

2016-2018:

“Estimo” (ICAR/22. Main holder: M.Bottero) within the Atelier “Architettura ed economia urbana” (Holder: Mauro Berta). Master’s degree in Architecture Construction City. Language: Italian. PoliTO.

2016-2017:

“Teorie e Strumenti delle valutazioni immobiliari” (ICAR/22. Main Holder: G. Mondini). Bachelor’s degree in Architecture. PoliTO

- **HOLDER OF PHD COURSES**

2019-present:

Teaching assistant of “Multi-methodology and urban renewals: mixing methods for facing urban uncertainty” (ICAR/22. Holder Prof. I. Lami, P. Lombardi). Ph.D Course in Urban and Regional development. Language: English. PoliTO

- **COMMISSIONS OF TRUST**

2020: Editor of the special issue “Benefits and Co-benefits of Natural and Built Environment Requalification and Conservation Strategies: Advances in Multidisciplinary Valuation Approaches and Assessment Models” published in the journal Sustainability;

Since 2020: Member of the evaluation commission for admission to the PhD “Urban and Regional development”;

Since 2018: Member of the Ph.D “Urban and Regional development” doctoral college;

Since 2017: Member of the steering committee “VR@polito”;

Since 2016: Member of the “Architecture Construction City” teaching college;

2015 –2016: Evaluator for the “Programma Housing” of CSP, Torino.

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

Since 2017-present: effective member of the editorial board of the journal “Valori e Valutazioni”;

Since 2015: member of the “Società Italiana di Estimo e Valutazioni (SIEV)”;

Since 2012: member of the research group “EURO Working Group Multicriteria Decision Aiding”;

Since 2011: member of the International Society on Multiple Criteria Decision Making MCDM;

Since 2011: member of the International Society on Multiple Criteria Decision Analysis MCDA.

- **PRIZES**

2019 – “Investigate walkability: an evaluation model to support urban development processes" won the prize as best research paper at the "Smart and Sustainable planning for cities and regions - SSPCR19" (Bolzano) in the stream “"Future mobility: autonomous vehicles or empowered pedestrian and cyclist?"

- **CAREER BREAKS**

18/08/2017 to 22/01/2018: maternity leave

- **NATIONAL ACADEMIC QUALIFICATION**

National Academic Qualification for Associate Professor (08/A3 - ICAR/22) (IT: Abilitazione Scientifica Nazionale, seconda fascia).

• MAIN PUBLICATIONS

1. Abastante F., Lami I.M., Mecca B. (2020). How Covid-19 influences the 2030 Agenda: do the practices of achieving the Sustainable Development Goal 11 need rethinking and adjustment? *Valori e Valutazioni*, 26, 11-23.
2. Abastante F., Corrente S., Greco S., Lami I.M., Mecca B. (2020). The introduction of the SRF-II method to compare hypothesis of adaptive reuse for an iconic historical building. *Operational Research*, DOI: doi.org/10.1007/s12351-020-00611-4
3. Abastante, F., Lami, I. M., La Riccia, L., Gaballo, M. (2020). Supporting Resilient Urban Planning through Walkability Assessment. *Sustainability*, 12(19), 8131.
4. Abastante, F., Lami, I. M., & Mecca, B. (2020). How to revitalise a historic district: A stakeholders-oriented assessment framework of adaptive reuse. In *Values and Functions for Future Cities* (pp. 3-20). Springer, Cham.
5. Abastante, F., & Lami, I. M. (2020). A Stakeholders-Oriented Approach to Analyze the Case of the UNESCO's Man and Biosphere Reserve CollinaPo. In *Values and Functions for Future Cities* (pp. 325-338). Springer, Cham.
6. Abastante, F., Lami, I. M., Mecca, B. (2020). Performance Indicators Framework to Analyse Factors Influencing the Success of Six Urban Cultural Regeneration Cases. In *INTERNATIONAL SYMPOSIUM: New Metropolitan Perspectives* (pp. 886-897). Springer, Cham.
7. Abastante, F., & Gaballo, M. (2020). How to assess walkability as a measure of pedestrian use: First step of a multi-methodological approach. In *INTERNATIONAL SYMPOSIUM: New Metropolitan Perspectives* (pp. 254-263). Springer, Cham.
8. Rotondo, F., Abastante, F., Cotella, G., Lami, I. M. (2020). Questioning Low-Carbon Transition Governance: A Comparative Analysis of European Case Studies. *Sustainability*, 12(24), 10460.
9. Abastante, F., Pensa, S., & Masala, E. (2020). The Process of Sharing Information in a Sustainable Development Perspective: A Web Visual Tool. In *Values and Functions for Future Cities* (pp. 339-350). Springer, Cham.
10. Abastante, F., Corrente, S., Greco, S., Ishizaka, A., & Lami, I. M. (2019). A new parsimonious AHP methodology: assigning priorities to many objects by comparing pairwise few reference objects. *Expert Systems with Applications*, 127, 109-120.
11. Abastante, F., Corrente, S., Greco, S., Ishizaka, A., & Lami, I. M. (2018). Choice architecture for architecture choices: Evaluating social housing initiatives putting together a parsimonious AHP methodology and the Choquet integral. *Land Use Policy*, 78, 748-762.
12. Lombardi, P., Abastante, F., Torabi Moghadam, S., & Toniolo, J. (2017). Multicriteria spatial decision support systems for future urban energy retrofitting scenarios. *Sustainability*, 9(7), 1252.
13. Abastante, F., Lami, I. M., & Lombardi, P. (2017). An integrated participative spatial decision support system for smart energy urban scenarios: a financial and economic approach. *Buildings*, 7(4), 103.
14. Abastante, F. (2016). Multicriteria decision methodologies supporting decision processes: empirical examples. *Geam-Geoingegneria Ambientale E Mineraria-Geam-Geoengineering Environment And Mining*, (149), 5-18.
15. Lami, I. M., & Abastante, F. (2017). Social Housing evaluation procedures: literature review and steps forward. *Geam-Geoingegneria Ambientale E Mineraria-Geam-Geoengineering Environment and Mining*, (150), 15-28.
16. Abastante, F., & Lami, I. M. (2016). An integrated assessment framework for the requalification of districts facing urban and social decline. In *Seminar of the Italian Society of Property Evaluation and Investment Decision* (pp. 535-545). Springer, Cham.
17. Lami, I. M., Abastante, F., Bottero, M., Masala, E., & Pensa, S. (2014). Integrating multicriteria evaluation and data visualization as a problem structuring approach to support territorial transformation projects. *EURO Journal on Decision Processes*, 2(3-4), 281-312.
18. Lami, I. M., & Abastante, F. (2014). Decision making for urban solid waste treatment in the context of territorial conflict: Can the Analytic Network Process help?. *Land Use Policy*, 41, 11-20.

19. Abastante, F., Bottero, M., Greco, S., & Lami, I. (2014). Addressing the Location of Undesirable Facilities through the Dominance-based Rough Set Approach. *Journal of Multi-Criteria Decision Analysis*, 21(1-2), 3-23.
20. Abastante, F., Bottero, M., Greco, S., & Lami, I. M. (2013). Dominance-based rough set approach and analytic network process for assessing urban transformation scenarios. *International Journal of Multicriteria Decision Making* 73-74, 3(2-3), 212-235.