




Federico DELL'ANNA

05/03/1987 Lecce (Le) Italy


Nationality: Italian

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EDUCATION

2020 Ph.D. in Urban And Regional Development

Politecnico di Torino - Turin - Italy

Thesis: Energy and Economic Evaluations to Design Urban Transformation and Requalification Programs

Supervisors Bottero M., Corgnati S.

Final grade cum laude

2015 Master's Degree in Architecture Construction City

Politecnico di Torino - Turin - Italy

Thesis: Evaluating co-benefits of nZED projects: methodological approach and experimentation in the city of Turin

Supervisors Corgnati S., Bottero M., Becchio C.

Final grade 107/110

2013 Bachelor's Degree in Architecture Sciences

Politecnico di Torino - Turin - Italy

Thesis: Architecture of pure forms: geometric analysis of Oswald Mathias Ungers' works

Supervisors Spallone R.

Final grade 106/110

TRAINING

05/05/2019 – 22/05/2019 **Advanced Energy System Analysis on the EnergyPLAN model**

Aalborg University - Aalborg - Denmark

23/07/2018 – 03/08/2018 **Participation in the 2018 EURO PhD Summer School on MCDA/M**

Technical University of Crete - Chania - Greece

INTERNATIONAL EXPERIENCE

01/06/2020 – 30/05/2023 **Participation in the research activities of the project "Enervator 2 how much do we care about the residential energy performance? An analysis of the level of EPC understanding, perceived confidence, and impact on residential preferences and values"**

Universitat Politècnica de Catalunya - Barcelona - Spain

01/06/2019 – 31/05/2022 **Participation in the European Horizon 2020 project "Quality Management Investments for Energy Efficiency (QUEST)"**

Politecnico di Torino – Turin - Italy

- 17/03/2018 – 24/04/2018 Participation in the research project "Integrated evaluations for the urban management"
Universitat Politècnica de Catalunya – Barcelona – Spain
- 21/07/2017 – 14/08/2017 Participation in the research project "Socio-ecological assessment of urban landscapes: a comparative study"
National University of Singapore – Singapore – Singapore
- 01/11/2017 – 31/12/2017 Participation in the research activities "Yanzhou Island - A design strategy for the redevelopment of the Yangzhou Island in the Zhaoqing New Area, Guangdong Province"
South China - Turin Collaboration Lab and CeNTO Project
- 01/06/2016 – 31/03/2020 Participation in the research activities of the project "Enervator how much do we care about the residential energy performance? An analysis of the level of EPC understanding, perceived confidence, and impact on residential preferences and values"
Universitat Politècnica de Catalunya - Barcelona - Spain

EDITORIAL BOARD

- 01/11/2019 – up to present Member of editorial board of journal "Pangea" (ISSN 2704-7458)
Geingegneria Mineraria e Ambientale – GEAM – Turin – ITALY
- 01/11/2019 – up to present Member of editorial board of journal "Valori e Valutazioni" (ISSN 2036-2404, Indexed in SCOPUS)
Societa Italiana di Estimo e Valutazione (SIEV)
- 19/03/2020 – 31/11/2020 Guest Editor of Special Issue "Adaptive Reuse Processes: Bridging the Gap between Memory and New Values" (Indexed in SCOPUS)
Sustainability – MDPI

PROFESSIONAL EXPERIENCE

- 01/11/2019 – 31/10/2020 Research fellowship
Participation to the research activity of "The assessment of ecosystem services for territorial governance: from biophysical to economic values" project
Politecnico di Torino - Interuniversity Department of Regional and Urban Studies and Planning - Turin - Italy
- 01/05/2019 – 30/04/2020 Participation in the Alta Scuola Politecnica (ASP) research project "Drive-en - Energy as a driver for territorial regeneration: the case of Olivetti complex in Ivrea"
Politecnico di Milano (Milan) – Politecnico di Torino (Turin) - Italy
- 19/12/2019 Teaching activity in the Master's Degree in Real Estate Appraisal and Assessment (MReV) – academic year 2019-2020
Politecnico di Milano - Milan - Italy
- 08/03/2019 Teaching activity in the Master's Degree in Real Estate Appraisal and Assessment (MReV) – academic year 2018-2019
Politecnico di Milano (Milan)
- 01/2019 – up to present Participation in the agreement between Politecnico di Torino and ZOOM spa (Cumiana, TO, Italy) for advice on the environmental and socio-economic aspects inherent in the Affiliated Executive Plan (PEC)
Politecnico di Torino - Turin - Italy

01/2019 – up to present	Participation in the agreement between Politecnico di Torino and Metropolitan City of Turin for advice on the environmental aspects of the General Town Plan of the City of Turin <i>Politecnico di Torino - Turin - Italy</i>
01/01/2019 – 24/03/2020	Participation in the agreement between Politecnico di Torino and Municipality of Ollomont (AO, Italy) for advice on the technical and environmental aspects of the copper mining concession called "Preslong" <i>Politecnico di Torino - Department of Environment, Land and Infrastructure Engineering - Turin - Italy</i>
17/03/2018 – 24/04/2018	Teaching assistant in the "Urban Sustainability and Methods of Environmental Evaluation" specialization course in "Urban and Architectonic Management and Valuation" <i>Universitat Politècnica de Catalunya - Barcelona - Spain</i>
01/01/2018 – up to present	Participation in research activities in collaboration with the Research and Development group of Rhoss S.p.a. <i>Politecnico di Torino – Energy Department – Turin - Italy</i>
23/01/2017 – 27/09/2020	Teaching assistant in the course "Architecture and urban economics", Master programme in Architecture Construction City. <i>Politecnico di Torino - Turin - Italy</i>
01/01/2017 – up to present	Participation in research activities in collaboration with the Working Group 3 of the Energy Center – LAB <i>Politecnico di Torino - Turin - Italy</i>
01/11/2016 – 31/05/2019	Academic tutor in the laboratory "Assessments and measures for the built environment: energy, estimation, acoustic and lighting aspects" <i>Politecnico di Torino - Turin - Italy</i>
15/01/2016 – 30/11/2016	Research fellowship Postgraduate research fellowship in the research activities make reference to the "Cost-optimal analysis of zero-energy districts" project <i>Politecnico di Torino - Energy Department - Turin - Italy</i>
14/12/2010 – 01/04/2011	Curricula trainership Curricula traineeship at the construction company SECAP SpA <i>Turin - Italy</i>

NETWORK

2/2020 – up to present	Member of the Italian Society of Appraisal and Evaluation - SIEV <i>Rome - Italy</i>
01/2019 – up to present	Member of the International Society on Multiple Criteria Decision Making - MCDM <i>Bailrigg - United Kingdom</i>
04/2017 – up to present	Member of the European Research Group EURO Working Group Multicriteria Decision Aiding - EWG MCDA <i>Paris - France</i>

AWARDS

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| 18/10/2016 | "Evaluating co-benefits of nZED projects: methodological approach and experimentation in the city of Turin" was elected as best master thesis for the AiCARR award 2016 (Milan, 18th October 2016) |
| 12/05/2017 | "A PROMETHEE-based approach for exploring cultural-gastronomic values in Monferrato Region (Italy)" won the 4th Jean-Pierre Brans PROMETHEE Award as best paper presented at PROMETHEE Days 2017 (Portsmouth, 12th May 2017) |

LANGUAGE SKILLS

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|---------------|---|
| Mother tongue | Italian |
| 21/06/2012 | International English Language Testing System - IELTS (5.0) |

COMPUTER SKILLS

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| Operating system | Microsoft Windows, Mac OS X |
| Programs/Software | Suite Office, Suite Mac, CAD, Suite Adobe. |

PUBLICATIONS

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| 2021 | Becchio C., Bottero M., Corgnati S.P., Dell'Anna F., Vergerio G. (2021) Energy Audit and Multi-Criteria Decision Analysis to identify sustainable strategies in the university campuses: application to Politecnico di Torino. In New Metropolitan Perspectives. |
| 2020 | Dell'Anna F., Bottero M., Becchio C., Corgnati S., Mondini G. (2020) Designing a decision support system to evaluate the environmental and extra-economic performances of a Nearly Zero-Energy Building". In Smart and Sustainable Built Environment, 1-30. |
| 2020 | Bottero M., Bragaglia F., Caruso N., Datola G., Dell'Anna F. (2020) Experimenting Community Impact Evaluation (CIE) for assessing urban regeneration programmes: the case study of the area 22@ Barcelona, Cities, 99, 102464. |
| 2020 | Napoli G., Bottero M., Ciulla G., Dell'Anna F., Figueira J.R., Greco S. (2020) Supporting public decision process in buildings energy retrofitting operations: the application of a Multiple Criteria Decision Aiding model to a case study in Southern Italy, Sustainable Cities and Society, 60, 102214. |
| 2019 | Becchio C., Bottero M., Corgnati S., Dell'Anna F., Delmastro C., Pesce E., Vergerio G. (2019) A CBA-based model to evaluate the retrofit of a reference district". In Proceedings of Building Simulation 2019: 16th Conference of IBPSA, in press. |
| 2019 | Bottero M.C., Dell'Anna F., Gobbo G. (2019) A PROMETHEE-based approach for designing the reuse of an abandoned railway in the Monferrato Region (Italy), International Journal of Multicriteria Decision Making, 8(1), 60-83. |
| 2019 | Becchio C., Bottero M., Corgnati S.P., Dell'Anna F., Pederiva G., Vergerio G. (2019) A composite decision support system for assessing transformation scenarios at the district level". In 4th Energy for |

- Sustainability International Conference - Designing a Sustainable Future, 1-5.
- 2019 Dell'Anna F., Vergerio G., Corgnati S., Mondini G. (2019) A new price list for retrofit intervention evaluation on some archetypical buildings. *Valori e Valutazioni*, 22, 3-17.
- 2019 Bottero M., D'Alpaos C., Dell'Anna F. (2019) Boosting investments in buildings energy retrofit: the role of incentives. In *New Metropolitan Perspectives - 2019 Local Knowledge and Innovation Dynamics Towards Territory Attractiveness Through the Implementation of Horizon/E2020/Agenda2030 – Volume 2*, 593-600.
- 2019 Dell'Anna F., Bravi M., Marmolejo-Duarte C., Bottero M., Chen A. (2019) EPC green premium in two different European climate zones: a comparative study between Barcelona and Turin, *Sustainability*, 11(20), 5605.
- 2019 Becchio C., Bottero M., Corgnati S., Dell'Anna F., Fabi V., Lingua C., Prendin L., Ranieri M. (2019) Effects on energy savings and occupant health of antibacterial filter. In *Proceeding of 13th REHVA World Congress CLIMA 2019*, 26-29 May 2019, Bucharest, Romania, 1-7.
- 2019 Becchio C., Bottero M., Corgnati S., Dell'Anna F., Fabi V., Lingua C. (2019) Energy and financial evaluation of thermal comfort. The case study of the Hotel Residence l'Orologio. In *Proceedings of Building Simulation 2019: 16th Conference of IBPSA*, in press.
- 2019 Bottero M., Bravi M., Dell'Anna F., Marmolejo-Duarte C. (2019) Energy efficiency choices and residential sector: observable behaviors and valuation models. In *Values and Functions for future cities: results of SIEV 2017-2018*, Springer, Cham.
- 2019 Bottero M., Bravi M., Dell'Anna F., Marmolejo-Duarte C. (2019) How the spatial hedonic agenda of EPCs differs in two climatic zones. In *Proceeding of the 4th Energy for Sustainability International Conference - EfS 2019*, 24-27 July 2019, Turin, Italy
- 2019 Becchio C., Bottero M., Bravi M., Corgnati S.P., Dell'Anna F., Mondini G., Vergerio G. (2019) Integrated assessments and energy retrofit: the contribution of the Energy Center Lab of the Politecnico di Torino. In *Values and Functions for future cities: results of SIEV 2017-2018*, Springer, Cham.
- 2019 Arisoy A., Corgnati S.P., Yilmaz A.Z., Mazzarella L., Becchio C., Saglam N.G., Çakan M., Romagnoni P., Palombo A., Buonomano A., Barone G., Dell'Anna F., Allard F., Kurnitski J. (2019) NZEB Design Strategies for Residential Buildings in Mediterranean Regions. Design Guideline Part 1. In *Rehva European Guidebook n. 28-2019*
- 2019 Bottero M., Bravi M., Cavana G., Dell'Anna F., Becchio C., Corgnati S. (2019) Retrofit energetico e decisioni di investimento: valutazione delle preferenze degli individui attraverso un esperimento di scelta. *GEAM - Geoingegneria Ambientale e Mineraria*, 158, 11-25.
- 2019 Bottero M., Comino E., Dell'Anna F., Dominici L., Rosso M. (2019) Strategic Assessment and Economic Evaluation: The Case Study of Yanzhou Island (China). *Sustainability*, 11(4), 1076.

- 2019 Becchio C., Bertoncini M., Boggio A., Bottero M., Corgnati S., Dell'Anna F. (2019) The Impact of Users' Lifestyle in Zero-Energy and Emission Buildings: An Application of Cost-Benefit Analysis. In *New Metropolitan Perspectives Local Knowledge and Innovation Dynamics Towards Territory Attractiveness Through the Implementation of Horizon/E2020/Agenda2030 – Volume 1*, 123-131.
- 2019 Becchio C., Bottero M., Corgnati S., Dell'Anna F., Fabi V., Lingua C., Prendin L., Ranieri M. (2019) The effects of indoor and outdoor air pollutants on workers' productivity in office building. In *Proceedings of 13th REHVA World Congress CLIMA 2019*, 26-29 May 2019, Bucharest, Romania, 1-7.
- 2018 Becchio C., Bottero M., Corgnati S., Dell'Anna F. (2018) Decision making for sustainable urban energy planning: an integrated evaluation framework of alternative solutions for a NZED (Net Zero-Energy District) in Turin, *Land Use Policy*, 78, 803-817.
- 2018 Bottero M., Dell'Anna F., Nappo M. (2018) Evaluating Tangible and Intangible Aspects of Cultural Heritage: An Application of the PROMETHEE Method for the Reuse Project of the Ceva–Ormea Railway. In *Integrated Evaluation for the Management of Contemporary Cities*. SIEV 2016. Green Energy and Technology. Springer, Cham, 285-295.
- 2018 Becchio C., Bottero M., Corgnati S.P., Dell'Anna F. (2018) Evaluating health benefits of urban energy retrofit: an application for the city of Turin. In *Smart and Sustainable Planning for Cities and Regions*. SSPCR 2017. Green Energy and Technology, 281-304.
- 2018 Bottero M., Bravi M., Dell'Anna F., Mondini G. (2018) Valuing buildings energy efficiency through Hedonic Prices Method: are spatial effects relevant?, *Valori e Valutazioni*, 21, 27-39.
- 2017 Becchio C., Bottero M.C., Casasso A., Corgnati S. P., Dell'Anna F., Piga B., Sethi R (2017) Energy, Economic and Environmental Modelling for Supporting Strategic Local Planning. In *Procedia Engeneering*, 205, 35-42.
- 2017 Buso T., Dell'Anna F., Becchio C., Bottero M. C., Corgnati S. P (2017) Of comfort and cost: Examining indoor comfort conditions and guests' valuations in Italian hotel rooms, *Energy Research & Social Science*, 32, 94-111.
- 2017 Borchellini R., Corgnati S.P., Becchio C., Delmastro C., Bottero M.C., Dell'Anna F., Acquaviva A., Bottaccioli L., Patti E., Bompard E., Pons E., Estebsari A., Verda V., Santarelli M., Leone P., Lanzini, A (2017) The Energy Center Initiative at Politecnico di Torino: Practical experiences on energy efficiency measures in the municipality of Torino, *International Journal of Heat and Technology*, 35, 196-204.
- 2016 Becchio C., Bottero M., Corgnati S.P., Dell'Anna, F. (2016) A MCDA-Based Approach for Evaluating Alternative Requalification Strategies for a Net-Zero Energy District (nZED). In *Multiple Criteria Decision Making: Applications in Management and Engineering / Zopounidis C., Doumpos, M. Springer International Publishing Switzerland, New York*, 189-211.

- 2016 Becchio C., Bottero M., Corgnati S.P., Dell'Anna F. (2016) Cost Benefit Analysis and Smart Grids Projects, NEW DIST, 1, 278-287

CONFERENCES

-
- 01/07/2020 – 04/07/2020 Chair of the session "Building multi-dimensional models for assessing complex environmental systems" at "20th International Conference on Computational Science and Its Applications – ICCSA 2020" Università degli Studi di Cagliari, Cagliari, Italy
- 01/07/2020 – 04/07/2020 Speaker at "20th International Conference on Computational Science and Its Applications – ICCSA 2020 - Evaluating the urban quality through a hybrid approach: application in the Milan (Italy) city area" Università degli Studi di Cagliari, Cagliari, Italy
- 25/05/2020 – 27/05/2020 Chair of the session "Transforming the Built Environment through Sustainability: Processes And Values" at "4th edition of the International Symposium New Metropolitan Perspectives (NMP)" Università degli Studi Mediterranea di Reggio Calabria, Reggio Calabria, Italy
- 25/05/2020 – 27/05/2020 Speaker at "4th edition of the International Symposium New Metropolitan Perspectives (NMP) - Energy Audit and Multi-Criteria Decision Analysis to identify sustainable strategies in the university campuses: application to Politecnico di Torino" Università degli Studi Mediterranea di Reggio Calabria, Reggio Calabria, Italy
- 19/09/2019 – 20/09/2019 Speaker at "UrbanPromo Green 2019 - Modelli avanzati per la valutazione dei co-benefit associati a interventi di riqualificazione e conservazione dell'ambiente costruito – SIEV Green jobs e riqualificazione energetica come strategie per la crescita economica e la riduzione degli impatti ambientali" Università IUAV di Venezia, Venice, Italy
- 24/06/2019 – 26/06/2019 Speaker at "4th Energy for Sustainability International Conference - How the Spatial Hedonic Agenda of Energy Performance Certificates differs in two climatic zones" Politecnico di Torino, Turin, Italy
- 24/06/2019 – 26/06/2019 Speaker at "4th Energy for Sustainability International Conference - Evaluation tools for decision-making process in energy investment projects" Politecnico di Torino, Turin, Italy
- 24/06/2019 – 26/06/2019 Co-author at "4th Energy for Sustainability International Conference - A composite decision support system for assessing transformation scenarios at the district level" Politecnico di Torino, Turin, Italy
- 23/06/2019 – 26/06/2019 Invited speaker at "30th European conference on Operational Research (EURO 2019) - The value of Urban Quality: a proposal for a hybrid approach" University College of Dublin UCD, Dublin, Ireland
- 23/06/2019 – 26/06/2019 Invited speaker at "30th European conference on Operational Research (EURO 2019) – An integrated decision support tool to evaluate retrofit scenarios at district scale" University College of Dublin - UCD, Dublin, Ireland
- 01/04/2019 – 03/04/2019 Co-author at "XXII Congresso Nazionale Associazione Italiana di Valutazione AIV - Il valore dei servizi ecosistemici culturali delle aree verdi urbane: applicazione di un modello edonimetrico spaziale per la città di Torino - The value of cultural ecosystem services in urban green areas: application of a spatial hedonimetric model for the city of Turin" Università IUAV di Venezia - IUAV, Venice, Italy

- 30/09/2018 – 04/10/2018 Co-author at "13th SDEWES Conference 2018 - Energy retrofit of public buildings and Multicriteria Decision Analysis: the application of the ELECTRE-TRI nC model to a decision process under architectural or landscape constraints" Palermo, Italy
- 08/07/2018 – 11/07/2018 Co-author at "EURO 2018 - 29th European Conference on Operational Research Assessing energy retrofit strategies for public buildings: an application of the ELECTRE-TRI nC model" City of Arts and Sciences (CAC), Valencia, Spain
- 22/05/2018 – 25/05/2018 Co-author at "New Metropolitan Perspective 2018 - Boosting investments in buildings energy retrofit: the role of incentives" Università Mediterranea, Reggio Calabria, Italy
- 22/05/2018 – 25/05/2018 Speaker at "New Metropolitan Perspectives - The impact of users' lifestyle in zero-energy and -emission buildings: an application of Cost-Benefit Analysis" Università Mediterranea, Reggio Calabria, Italy
- 05/04/2018 – 07/04/2018 Speaker at "87° Meeting of EURO Working Group on MCDA - Addressing the selection of requalification strategies for university campus. An application of the TOPSIS method for Politecnico di Torino." Delft University of Technology, Delft, Netherlands
- 19/10/2017 – 22/10/2017 Co-author at "10th International Symposium on Heating, Ventilation and Air Conditioning ISHVAC2017 - Energy, Economic and Environmental Modelling for Supporting Strategic Local Planning" Jinan, China
- 11/05/2017 – 12/05/2017 Speaker at "4th PROMETHEE DAYS - A PROMETHEE-based approach for exploring cultural-gastronomic values in Monferrato Region (Italy)" University of Portsmouth, Portsmouth, United Kingdom
- 20/04/2017 – 21/04/2017 Speaker at "85° Meeting of EURO Working Group on MCDA - Post-carbon building to design post-carbon city. An application of the PROMETHEE method for the comparison of energy requalification strategies" Università di Padova, Padova, Italy
- 22/03/2017 – 24/03/2017 Speaker at "2nd International Conference SSPCR 2017 - Smart and Sustainable Planning for Cities and Regions - Evaluating health benefits of urban energy retrofit: an application for the city of Turin." EURAC, Bolzano, Italy
- 18/02/2016 – 19/02/2016 Co-author at "International Conference SBE16 – Towards Post-Carbon City - Cost Benefit Analysis and Smart Grids projects" Politecnico di Torino, Turin, Italy