

Curriculum Vitae - Dr. Michele D'Ostuni

ORCID: <https://orcid.org/0000-0002-9246-6099>

email: michele.dostuni@unibo.it

Profile

Architect, holds a multidisciplinary Ph.D. in architecture and horticultural sciences, has focused his research on strategic urban planning for circular cities together with the study of soilless cultivation systems for new models of Urban Agriculture. Currently enrolled as post-doc researcher at the Department of Agricultural and Food Sciences of the University of Bologna, has continued his research on the topics of Building-integrated Agriculture (BIA) and nature based solutions for mental health connected to the development of horticultural therapies in relation to the urban environment.

Education

2017 - 2020	Doctorate (Doctor Europaeus) Università di Firenze, Facoltà di Architettura. Department of Building Technologies Firenze, It
2019 - 2020	Visiting Ph.D student Wageningen University & Research. Department of Greenhouse Horticulture
2009 - 2016	Università di Firenze, Facoltà di Architettura_Corso di Laurea Magistrale a Ciclo Unico Firenze, It HONORS Graduate (110 magna cum laude)
Jun. - Aug. 2014	Green Building Solutions - School on Passive House Design TU Wien Wien, Au
2012 - 2013	Erasmus: Universidad de Sevilla_Escuela Tecnica Superior de Arquitectura Sevilla, Es

Professional Experiences

Oct.. 2021 - on course	Università di Bologna. Department of Agricultural Sciences _ Bologna, Italy <i>Postdoctorate Researcher</i>
Jan. 2017 - Jan. 2020	+31Architects _ Amsterdam, The Netherlands (http://plus31architects.com) <i>Associate - Project Architect</i>
Jan. 2015 - Jan. 2017	IGD Italian Innovation Green Design _ Florence, Italy - Beijing, China (http://www.abitagreen.net) <i>Partner - Project Developer</i>
Oct. 2014 - Dec. 2014	Departamento de Obras Publicas _ Municipality of Isabela - Galapagos Islands, Ecuador (http://www.gadisabela.gob.ec) <i>Intern Architect</i>

Spoken Languages

Italian	English	Spanish	French	Dutch
●●●●	●●●●	●●●○	●●○○	●○○○

Technical Skills



LIST OF DOCUMENTS

1. Education

Academic titles

- Ph.D Diploma from University of Florence - Doctor Europaeus certification^{1a}
- Master Thesis in Architecture from University of Florence^{1b}

Visiting research periods abroad

- Visiting research period at Wageningen University and Research (December, 2019 - June 2020; 7 months)^{1c}

Training courses

- Summer School (7 ECTS) “Green Building Soultions”. Vienna (July 26 - August 17, 2014)^{1d}

Language certifications

- C2 - Cambridge proficiency certification^{1e}

2. Research experience

Work appointments at universities

- Declaration of Resarch Grant (Assegno di ricerca) at Department of Agricultural Sciences of University of Bologna. October, 2021 - October, 2024 (3 years)^{2a,2b,2c}

Participation in international research teams

- Member of the Coordinating Team (University of Bologna); **Reference person for WP6** - Upscalings in the EU_H2020 financed project **Food Systems in European Cities** (<https://foode.eu>). October, 2021 - January, 2024^{2d}
- Group **coordinator** from University of Bologna; Member of the proposal **writing team**; **Reference person for WP2 AGRITECH**, in the project **BIZE_UrFarm: Building Integrated Zero Emission Urban Farming towards sustainable farmscape in Milan and Singapore** financed by the Italian Ministry of International Cooperation and Foreign Affairs (MAECI). September - December, 2022. UNIBO financial share: 86,167.50 euro^{2e}
- Member of the proposal **Writing Team** in the EU_HE financed project **GreenME: advancing Greencare in Europe: an integrated multi-scalar approach for the expansion of nature-based therapies to improve Mental health Equity**. October, 2021 - September, 2022. UNIBO financial share: 530,101.25 euro^{2f}

Participation in national research teams

- Group **coordinator** from University of Bologna & Member of the proposal writing team in the project **Urban Linneo** financed by Compagnia di San Paolo. February, 2023 - February, 2024. UNIBO financial share: 30,000.00 euro^{2g}

3. Editorial activities

- Guest **Editor** of MDPI Sustainability’s Special Issue “Present and Future Perspectives of Landscape and Urban Horticulture as Urban Regeneration Practices”. August, 2023 - May, 2024^{3a}
- Member of the **Scientific Committee** of UnaPress (Urban Narraction). <https://urbannarraction.net/>. Since April 2023^{3b}

4. Organization or participation as a speaker at scientific conferences in Italy or abroad;

International

- *"Setting the scene for policy innovation"* **Vertifarm2024, 3rd International Workshop on Vertical Farming** _ Bologna, Palazzo Re Enzo. 16-19.01.2024^{4a}
- *"Introducing Building Integrated Agriculture as Green Sustainable Building Concept in MENA Countries: Approach and Constraints"* **6th International Conference on Contemporary Affairs in Architecture and Urbanism (ICCAUA_2023)** _ Istanbul, Turkey. 14-16.06.2023^{4b}
- *"Between Agriculture and Architectural Design. The experience of the UrbanFarm Student Challenge 2022"*. **Farming the City @NovelFarm** _ Pordenone, Italy. 26.05.2022^{4c}
- *"Nurturing cities: pathways towards a circular urban agriculture"*. **XIX INTERNATIONAL FORUM 'Le Vie dei Mercanti' WORLD HERITAGE and DESIGN FOR HEALTH**_ Napoli - Capri, Italy. 15-18.07.2021^{4d}

National

- *"Città coltivabili. Fra progettazione urbana e una nuova agricoltura"* **Festival della Scienza** _ Galata Museo del Mare, Auditorium. Genova, Italy. 28.10.2023^{4e}
- *"Il cibo non è neutrale"* **Summer school of Resilienze Festival @ Le Serre dei Giardini Margherita** _ Bologna, Italy. 10.06.2023^{4f}
- *"Green city. Agricoltura Urbana e sistemi di integrazione nel costruito"* **Smart Talks. Cicle of Conferences on Sustainable Architecture and Planning** _ Bologna, Italy. 28.03.2023^{4g}
- *"Complessità e sfide di una nuova agricoltura integrata nel tessuto urbano. Potrà il cibo formare un nuovo modo di ripensare lo spazio costruito?"*. **I Convegno Nazionale Orticoltura e Floricoltura - 1st National Conference on Floriculture & Horticulture** _ Pisa, Italy. 14-16.06.2022^{4h}
- *"Green city. Corridoi ciclo-eco-ortivi e sistemi di coltivazioni integrate nel costruito - Green city. Green corridors and building-integrated agriculture"*. **Smart Talks. Cicle of Conferences on Sustainable Architecture and Planning** _ Bologna, Italy. 10.05.2022⁴ⁱ

5. Teaching experience

Responsibility of courses' teaching

- Adjunct professor contract: Course of **"Architettura degli Interni - Qualità ambientale degli interni"**. Alma mater - Università di Bologna - Dipartimento di Architettura (DA). (ECTS: 4; 40 hours) AY: 2023-2024^{5a}
- Adjunct professor contract: Course of **"Produzione Edilizia"**. Università Cattolica del Buonconsiglio, Tirana. Faculty of Architecture. (ECTS:6; 35 hours) AY: 2022-2023^{5b}
- Adjunct lecturer contract in the course: Health Lab 2023 held by prof. Simone Paternic _ **"Prodotti e servizi per la salute a partire dal potenziale delle tecnologie 4,0 (robotica, sensoristica, digitale): lezioni frontali e attività di tutoraggio sul tema del vertical farming"**. ISIA (Istituto Superiore Industrie Artistiche), Firenze, Italy. (12 hours) AY: 2022-2023^{5c}

International seminars

- Seminar **Sustainable Urban Farming in Singapore and Milan**. Singapore Institute of Technology, Singapore. 14.11.2023 (2 hours)^{5d}
- Seminar **Introduction to the concept of Urban Agriculture and how to integrate it in buildings**. PoliMI Summer school. Politecnico di Milano. 13.07.2023 (4 hours)^{5e}
- Seminar **The role of vegetation in designing Green Buildings. Green roofs, green walls, and integrated food production in buildings**. Master SUARCH - Sustainable Architecture and Smart Cities. Università di Firenze & UIR Université Internationale de Rabat. 16.06.2023 (3 hours)^{5f}

National seminars

- Seminar **Building-Integrated Agriculture (BIA) for Green Buildings**. Course of PRECISION FARMING FOR VEGETABLE PRODUCTION professor Giorgio Prosdocimi Gianquinto (2 hours). In 2021, 2022, 2023^{5g}
- Seminar **Designing Vertical Farms for indoor cultivation systems for Urban Agriculture**. Course of ORTICOLTURA, professor Giorgio Prosdocimi Gianquinto (6 hours). In 2020, 2021, 2022^{5h}
- Seminar **Urban Planning strategies for new agricultural solutions in cities**. Course of URBAN AGRICULTURE with prof. Giorgio P. Gianquinto (2 hours). In 2021 and 2022⁵ⁱ

Other teaching duties

- Expert on the subject (cultore della materia) certification: Course of “Laboratorio di Tecnologia dell’Architettura” with prof. Leonardo Zaffi. Università degli Studi di Firenze - Dipartimento di Architettura (DIDA) AY: 2020-2021; 2021-2022 ^{5l, 5m}
- Co-supervision of n. 2 BSc and n. 4 MSc thesis at Universities of Bologna and Firenze ⁵ⁿ
- Co-supervision of Ph.D Thesis of Mrs. Yakout Djamaa entitled “Predefining design models of building-integrated agriculture throw BIM”. September 2022 - September 2025 ^{5o}

6. Awards

- Shortlisted finalist in the national prize: **11° Premio Nazionale GiovedìScienza**_Torino, Italy. *Collegio Carlo Alberto*. **4th Classified**. 24.05.2022 ^{6a}
- 3rd classified: **Premio “La Ricerca in 3 Minuti” in the Framework of the European Researchers’ Night**_ Florence, Italy. 29.12.2020 ^{6b}
- 1st prize at the **EcoTech Green Award** in the category *Projects and Research related to HighTech Green installations* with the project “The Living Tower - A Vertical Farm in Amsterdam”_ Padova, Italy *Padova Fiere*. September, 2018 ^{6c}
- 1st prize at the **SNEC 2017 Agricultural Photovoltaic Project Design & Engineering Competition** for the project “SOLAR FARM ECO VILLAGE”. Awarded by the Shanghai New Energy Industry Association (SNEIA). Shanghai, China. April 2017 ^{6d}

Dr. Michele D'Ostuni - PUBLICATIONS

Shortlisted Publications

- **D'Ostuni, M.**, Stanghellini, C., Boedijn, A., Zaffi, L., Pennisi G., & Orsini, F. (2023). Evaluating the impacts of nutrients recovery from urine wastewater in Building-Integrated Agriculture. A test case study in Amsterdam. *Sustainable Cities and Society*, 104449.
DOI: <https://doi.org/10.1016/j.scs.2023.104449>
- **D'Ostuni, M.**, Zaffi, L., Appolloni, E., Orsini, F., (2022). Understanding the complexities of Building-Integrated Agriculture. Can food shape the future built environment? *Futures*, v. 144, 103061.
DOI: <https://doi.org/10.1016/j.futures.2022.103061>.
- Coppola E., Zaffi L., **D'Ostuni M.**, (2022). From Superillas to tactical greeneery. Experiments and transcalar strategies of vegetal regeneration of urban space. *AGATHÓN | International Journal of Architecture, Art and Design*, v. 11, n. online, p. 62-73.
DOI: 10.19229/2464-9309/1152022.
- Zaffi, L.; **D'Ostuni, M.** (2020). Metabolic cities of the future. Between Agriculture and Architecture. *AGATHÓN | International Journal of Architecture, Art and Design*, v. 8, n. online, p. 82-93, 27 Dec. 2020
DOI: 10.19229/2464-9309/882020
- Trombadore A., Paludi B., **D'Ostuni M.**, (2020). The energy of the green: green facades and vertical farm as dynamic envelope for resilient building. *Journal of Physics, Conference Series*, Volume 1343, Number 1 2020.
DOI: 10.1088/1742-6596/1343/1/012172

Complete list of Publications

- Djamaa, Y., **D'Ostuni, M.**, & Bendjaballah, O. (2023). Introducing Building Integrated Agriculture as green/sustainable building concept in MENA countries: approach and constraints. *Proceedings of the International Conference of Contemporary Affairs in Architecture and Urbanism-ICCAUA*, 6(1), 57-65.
DOI: <https://doi.org/10.38027/iccaua2023en0109>
- **D'Ostuni, M.**, Zauli, I. (2023), Urban Agriculture and the journey towards UrbanFarm Challenge. In Orsini, F., D'Ostuni, M., Zauli, I., Pennisi, G., Larsson, M., Pálsdóttir, A.M. (Eds.) *UrbanFarm 2023: Integrating social, economic and environmental sustainability pillars for sustainable food systems and urban regeneration*. Bologna: AMS Acta, p. 10-11.
- Orsini, F., **D'Ostuni, M.**, Zauli, I., Pennisi, G., Larsson, M., Pálsdóttir, A.M. (2023), *UrbanFarm 2023: Integrating social, economic and environmental sustainability pillars for sustainable food systems and urban regeneration*. Bologna: AMS Acta, p. 46. In: *UrbanFarm (9)*. A cura di: Orsini, Francesco. ISSN 2612-7660
ISBN 9788854971134
DOI 10.6092/unibo/amsacta/7307.
- **D'Ostuni, M.**, Orsini, F. (2023). Coltivare in città: agricoltura urbana e sviluppo della pianificazione territoriale. In Orsini, F., Gianquinto G., Pennisi F. (Eds.) *Agricoltura Urbana* (pp. 135-151). Edagricole, Bologna 2023.
ISBN: 978-88-506-5627-1
- **D'Ostuni, M.**, Stanghellini, C., Boedijn, A., Zaffi, L., Pennisi G., & Orsini, F. (2023). Evaluating the impacts of nutrients recovery from urine wastewater in Building-Integrated Agriculture. A test case study in Amsterdam. *Sustainable Cities and Society*, 104449.
DOI: <https://doi.org/10.1016/j.scs.2023.104449>
- **D'Ostuni, M.**, Zaffi, L. (2022). From horizontal to vertical. Advanced food production in urban areas through vertical farming projects. In, *WORLD HERITAGE and ECOLOGICAL TRANSITION | Le Vie dei Mercanti*, XX International Forum. Gambardella C., Gangemi Editore Spa. Roma 2022
ISBN: 9788849245301
- **D'Ostuni, M.**, Zaffi, L., Appolloni, E., Orsini, F., (2022). Understanding the complexities of Building-Integrated Agriculture. Can food shape the future built environment?. *Futures*, v. 144, 103061.
DOI: <https://doi.org/10.1016/j.futures.2022.103061>.
- Orsini, F., Appolloni, E., **D'Ostuni, M.**, (2022). Can cities provide food in the XXI century? A review on the role of building-integrated agriculture. In *VIII International Conference on Landscape and Urban Horticulture 1345* (pp. 13-26).

- Coppola E., Zaffi L., **D'Ostuni M.**, (2022). From Superillas to tactical greeneery. Experiments and transcalar strategies of vegetal regeneration of urban space. AGATHÓN | International Journal of Architecture, Art and Design, v. 11, n. online, p. 62-73.
DOI: 10.19229/2464-9309/1152022.
- Orsini F., **D'Ostuni M.**, (2022). The Important Roles of Urban Agriculture. Front. Young Minds. 10:701688.
DOI: 10.3389/frym.2022.701688
- Trombadore A., Paludi B., **D'Ostuni M.**, (2022). Adaptive Design of Green Facades and Vertical Farm: Examples of Technological Integration of Microalgae for Energy Production in Resilient Architecture. In: Sayigh A., Trombadore A. (eds) The Importance of Greenery in Sustainable Buildings. Innovative Renewable Energy. Springer.
DOI: https://doi.org/10.1007/978-3-030-68556-0_10
- **D'Ostuni M.**, Trombadore A., Orsini F., (2022). Food in the City: Enabling Integrated Solutions for Urban Agriculture and Food Production in Buildings. In: Sayigh A., Trombadore A. (eds) The Importance of Greenery in Sustainable Buildings. Innovative Renewable Energy. Springer, Cham. 2022.
DOI: https://doi.org/10.1007/978-3-030-68556-0_8
- **D'Ostuni M.**, Zaffi L. (2021). Nurturing cities: pathways towards a circular urban agriculture. In, WORLD HERITAGE and DESIGN FOR HEALTH | Le Vie dei Mercanti, XIX International Forum. Gambardella C., Gangemi Editore Spa. Roma 2021
ISBN: 978-88-492-4088-7
- Orsini F., Frasnetti, E., **D'Ostuni M.**, Pennisi, G., (2021) UrbanFarm2021: Interdisciplinary knowledge for urban regeneration and sustainable food systems. Alma Mater Studiorum University of Bologna, 2021.
DOI: <http://doi.org/10.6092/unibo/amsacta/6707>
- Zaffi L.; **D'Ostuni M.** (2020). Metabolic cities of the future. Between Agriculture and Architecture. AGATHÓN | International Journal of Architecture, Art and Design, v. 8, n. online, p. 82-93, 27 Dec. 2020
DOI: 10.19229/2464-9309/882020
- Orsini F., Pennisi G., **D'Ostuni M.**, Paoletti M., Steffan G., D'Alessandro A., Tamburrini A., Sabatini G., UrbanFarm2020 Bridging interdisciplinary knowledge for sustainable urban landscapes , Bologna 2020 ©2020 Alma Mater Studiorum, University of Bologna
ISSN: 2612-7660
ISBN: 9788854970120
- Trombadore A., Paludi B., **D'Ostuni M.**, (2020). The energy of the green: green facades and vertical farm as dynamic envelope for resilient building. Journal of Physics, Conference Series, Volume 1343, Number 1 2020.
DOI: 10.1088/1742-6596/1343/1/012172
- Orsini F., Pennisi G., D'Alessandro A., Kratochvilova, D., Steffan G., Paoletti M., Sabbatini G., **D'Ostuni M.**, Trombadore A., Gianquinto, G., (2019). Bridging interdisciplinary knowledge for sustainable urban landscapes: results from the international student competition UrbanFarm2019. ISHS Acta Horticulturae 1298: I International Symposium on Botanical Gardens and Landscapes. Bangkok 2019.
DOI: 10.17660/ActaHortic.2020.1298.15
- Orsini F., Pennisi G., **D'Ostuni M.**, Paoletti M., Steffan G., D'Alessandro A., Kratochvilova D., (2019). Urban Farm 2019 - Projects for the former Zanussi area in Conegliano, Bologna 2020 ©2020 Alma Mater Studiorum, University of Bologna
ISBN: 9788854970038
DOI: <http://doi.org/10.6092/unibo/amsacta/6198>
- Orsini F., Pennisi G., **D'Ostuni M.**, Paoletti M., Steffan G., D'Alessandro A., Kratochvilova D., Urban Farm 2019 - Book Finale challenge, Bologna 2019 - UniBo
ISBN: 9788898010936
- **D'Ostuni M.**, Trombadore A., (2019). Cities shaped by food - A new architectonic avant-guard. In Orsini F., Pennisi G., D'Ostuni M., Paoletti M., Steffan G., D'Alessandro A., Kratochvilova D. (Eds), UrbanFarm 2019 - Book Finale challenge, Bologna 2019 - UniBo pp. 60-61
ISBN: 9788898010936