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## 1. GENERAL INFORMATION

- Born in Perugia (PG) on 28 November 1973
  - Degree in Engineering for the Environment and Territory at the University of Perugia on 07/16/2001
  - He obtained the title of PhD in "Sustainable Rural Development" XXI ciclo, at the Faculty of Agriculture of the University of Perugia, on February 17, 2009 with a final dissertation entitled "Environmental analysis and hypothesis of mitigation of the climate change in the Trasimeno lake district "
  - Framed in the role of University Researcher SSD AGR / 10 "Rural Buildings and Agroforestal Territory" since 12/30/2011
  - He carries out his activity at the Territory and Rural Construction Research Unit of the Department of Agricultural, Food and Environmental Sciences of the University of Perugia
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## 2. TEACHING ACTIVITIES

Since January 2012 Dr. David Grohmann has been teaching at the Department of Agricultural, Food and Environmental Sciences of the University of Perugia. He was responsible for the following courses annually.

- Academic year 2011/2012

Teaching course "RECOVERY OF LANDSCAPE" inside the three-year Degree Course in "Landscape Technical Management";

- Academic year 2012/2013

Teaching course "DESIGNING GREEN AREAS WITH DRAWING ELEMENTS" inside the three-year Degree Course in "Ornamental Green and Landscape"

- Academic year 2013/2014

Teaching course "DESIGNING GREEN AREAS WITH DRAWING ELEMENTS" inside the three-year Degree

Course in "Ornamental Green and Landscape"

- Academic year 2014/2015

Teaching course "DESIGNING GREEN AREAS WITH DRAWING ELEMENTS" inside the three-year degree course in "Agricultural and Environmental Sciences" - "Ornamental green" curriculum

- Academic year 2015/2016

Teaching course "DESIGNING GREEN AREAS WITH DRAWING ELEMENTS" inside the three-year degree course in "Agricultural and Environmental Sciences" - "Ornamental green" curriculum

- Academic year 2016/2017

Teaching course "DESIGNING GREEN AREAS WITH DRAWING ELEMENTS" inside the three-year degree course in "Agricultural and Environmental Sciences" - "Ornamental green" curriculum

- Academic Year 2017/2018

Teaching course "DESIGNING GREEN AREAS WITH DRAWING ELEMENTS" inside the three-year degree course in "Agricultural and Environmental Sciences" - "Ornamental green" curriculum 3.

#### OTHER EDUCATIONAL ACTIVITIES

Seminars in English

From the first semester of. 2014/2015 Dr. David Grohmann works with "Umbra Institute" of Perugia (institution that houses American students by offering training in various disciplines. Site: [www.umbra.org](http://www.umbra.org)) lecturing in English within the teaching of ESUS 310: urban spaces: Rebuilding Community in Perugia (Lecturer Arch. Raymond Lorenzo) on the theme of urban agriculture as a redevelopment tool of urban environments.

Seminars in Doctorate courses:

"3D design of green areas" held during the course of Doctorate in "Sustainable Rural Development, Land and Environment", University of Perugia, XXVIII cycle;

Other seminars:

- "Living green spaces";
  - "The recovery of brownfields through environmental design"
  - "Green spaces design methodologies and tools"
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#### 3. INSTITUTIONAL ACTIVITY

- Member of the Orientation Commission of the Department;
  - Member of the technical committee Umbria - ANCI - Department of Agricultural Sciences, Food and Environment on urban agriculture;
  - Founding member of the project Ortobello Perugia (project for the creation of a community garden dedicated to horticulture in the urban district of Borgo XX Giugno - Perugia);
  - Project head of a participatory design project for the redevelopment of the schoolyard of the school XX Giugno- Perugia;
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#### 4. SCIENTIFIC PROJECTS

- Coordinator for the project of designing a vertical greening system and the renovation of the schoolyard of the Comprehensive School "G. Ferraris "of Spello (PG);
- Project manager of the St. Peter Green Team, a project dedicated to the maintenance and design of open spaces belonging to the DSA3.
- Coordinator for the project of social gardening "The gardens of St. Peter", realized within the

appurtenances of the DSA3 with the involvement of local residents and schools.

- Coordinator of the agreement between DSA3 and UWLA with prof. Daniel Winterbottom.
  - Coordinator of the project: "Development and monitoring model for urban green areas, a participatory design process carried out for the Municipality of Lumezzane (BS).
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## 5. INTERNATIONAL ACTIVITIES

- Visiting scholar at the University of Washington – Landscape Architecture Department

Fall quarter 2017

Tutor: Prof. Jeff Hou

Research: Integrating Community Gardens into Urban Parks: Challenges and Lessons in Planning, Design and Management from Seattle

He has been a visiting scholar at the University of Washington, Seattle, Dept. of Landscape Architecture in the fall quarter of 2017, with a research on community gardens (tutor: prof. Jeffrey Hou).

At UWLA he has held a seminar on emergency post-earthquake interventions and collective gardening projects in Umbria (Italy).

- REVIEWER and REFEREE

David Grohmann has served as an expert reviewer and rapporteur for two H2020 projects of the H2020-2016-RUR call.

David Grohmann has served as a reviewer for the Journal Sustainable Cities and Society.

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## 6. PARTICIPATION IN INTERNATIONAL AND NATIONAL CONFERENCES

### International

- European Council of Landscape Architecture Schools (ECLAS) Conference 2018 - "Landscapes of Conflicts". 9-12 September 2018, Ghent

1 oral presentation

- THE FATHER OF SEATTLE'S COMMUNITY GARDENS TURNS 45: LESSONS LEARNED AT PICARDO FARM PATCH;

- International Conference "Healthy landscapes: green, regeneration, safety". 6-8 June 2018, Bologna

2 oral presentations

- Community gardens as healing tools for patients with eating disorders;
- A Structured listening method to retrofit to urban park evaluating the urban green system;

- International Conference "Green Infrastructures: Nature based solutions for sustainable and resilient cities". 4-7 April 2017, Orvieto

1 oral presentation

- Small-scale green infrastructures: a literary review of the future of urban green spaces;

- 53rd IFLA WORLD CONGRESS: TASTING THE LANDSCAPE. 20-22 April, 2016. Turin

1 oral presentation

- The vegetable gardens of St. Peter (Perugia-Italy): the rebirth of a forgotten place

- International Conference of Agricultural Engineering AgEng 2014 - "Engineering for improving resource

efficiency". 6-10 July 2014, Zurich

2 abstract:

- Off-grid production and processing units: renewable energy for small-scale agriculture;
- Design of a pig feeder for free range fattening station in rural marginal areas;

- XXXV CIOSTA Conference "From Effective to Intelligent Agriculture and Forestry". July 3 - 5, 2013, Billund, Denmark

2 oral presentations:

- Optimization of thermal performances in livestock housing design solutions using Genetic Algorithms;
- The use of dynamic energy simulation for the optimization of sustainable building envelopes;

- International Conference of Agricultural Engineering CIGR-EurAgEng 2012. 8-12 July 2012, Valencia. Spain

1 oral presentation:

- Landscape development scenario analysis by Pandora model: an application in the Umbria region (Italy).

National

- Conference of the II section of the Italian Association of Agricultural Engineering. 14-15 February 2018. Milan

- 11th International AIA Conference: "Biosystems Engineering addressing the human challenges of the 21st century" 5-8 July 2017, Bari

2 oral presentations

- Valorization of rural buildings in central Italy: the case study of the "Casa Colonica";
- Valorization of Tilia SpA's pruning waste as insulation material;

- Second Interdepartmental Convention: Doing Science Today. 15-16 December 2016. Perugia

1 oral presentation

- The gardens of S. Pietro: an experience of citizen science in Perugia;

- International conference of the 2nd section of the Italian Association of Agricultural Engineering, within the framework of the 2016 SAIE: Smart Rural Buildings: Food Security, Safety and Sustainability. 21 October 2016. Bologna

1 oral presentation

- Smart farm: energy and water solutions for on-farm micro-dairy enterprises;

- International Mid-Term Italian Association of Agricultural Engineering Conference. 22-23 June 2015, Naples

1 oral presentation

- Energy efficiency solutions for traditional rural buildings. The farmhouse in Umbria;

- Italian Association of Agricultural Engineering, "The European Pilgrimage Routes for promoting sustainable and quality tourism in rural areas". International Conference, 4-6 December 2014, Florence

1 oral presentation:

- Sustainable development of intermediate rural areas;

1 poster:

- Landscape enhancement of the Franciscan trail in Umbria: design of the garden of peace in Valfabbrica;

- Conference organized by the Italian Association for Unitary Recovery of Agricultural Realities and Places

- (R.U.R.A.L.I.A.) "Multifunctionality of the landscape in rural areas". 25-26 October 2013, Udine  
 2 posters
- Multifunctionality of rural systems: the challenges of research: Reflections of the Umbrian-Marche Node;
  - Multifunctionality of rural systems: the challenges of research: Proposals of the Umbrian-Marche Node;
- X Conference of the Italian Society of Agricultural Engineering "Horizons in agricultural, forestry and biosystems engineering". International Conference, 8-12 September 2013, Viterbo  
 2 oral presentations:
- Implementation of a genetic algorithm for energy design optimization of livestock housing using a dynamic thermal simulator;
  - Optimization of sustainable buildings envelopes for extensive sheep farming through the use of dynamic energy simulation;
- X AISSA Conference - "The enhancement of agricultural land and the control of land degradation". 28-29 November 2012, Palermo  
 2 contributions
- EFAFSY: a sustainable model of autonomous rural settlement in central Italy;
  - The agricultural park: territorial planning tool dedicated to the protection and enhancement.

## **Selected Publications**

### Journals

1. Grohmann D., Petrucci R., Torre L., Micheli M., Menconi ME. (2019). Street trees' management perspectives: reuse of Tilia sp.'s pruning waste for insulation purposes. *Urban Forestry & Urban Greening*, p. 177-182, Vol. 38;
2. Menconi ME., Artemi S., Borcghi P., Grohmann D. (2018). Role of Local Action Groups in Improving the Sense of Belonging of Local Communities with Their Territories. *Sustainability* 10(12), 4681;
3. Hou J.; Grohmann D. (2018). Integrating Community Gardens into Urban Parks: Lessons in Planning, Design and Partnership from Seattle. *Urban Forestry & Urban Greening*, p. 46-55, Vol. 33;
4. Menconi M. E.; Grohmann D. (2018). Participatory retrofitting of school playgrounds: Collaboration between children and university students to develop a vision. *Thinking Skills and Creativity*, p. 71-86, Vol 29;
5. Rocchi, L.; Kadziński, M.; Menconi, M.E.; Grohmann, D.; Miebs, G.; Paolotti, L.; Boggia, A. (2018). Sustainability evaluation of retrofitting solutions for rural buildings through life cycle approach and multi-criteria analysis. *Energy and Buildings*. P. 281-290, Vol. 173;
6. Kadziński, M.; Rocchi, L.; Miebs, G.; Grohmann, D.; Menconi, M.E.; Paolotti, L. (2018). Multiple Criteria Assessment of Insulating Materials with a Group Decision Framework Incorporating Outranking Preference Model and Characteristic Class Profiles. *Group Decision and Negotiation*. P. 33-59, Vol. 27;
7. Menconi M. E.; Grohmann D.; Mancinelli C. (2017). European farmers and participatory rural appraisal: A systematic literature review on experiences to optimize rural development. *Land Use Policy* p. 1-11, Vol. 6;
8. Menconi M. E.; Chiappini M.; Hensen J.; Grohmann D. (2017). Thermal comfort optimisation of vernacular rural buildings: Passive solutions to retrofit a typical farmhouse in central Italy. *Journal of Agricultural Engineering*. p.127-136, vol. 68;

9. Menconi M. E., Dell'Anna S., Scarlato A., Grohmann D. (2016). Energy sovereignty in Italian inner areas: Off-grid renewable solutions for isolated systems and rural buildings. *Renewable Energy* p. 14-26, Vol.93;
10. Menconi M. E., Grohmann D. (2014). Model Integrated of Life-cycle costing and Dynamic thermal simulation (MILD) to evaluate roof insulation materials for existing livestock buildings. *Energy And Buildings* (ISSN:0378-7788) p. 48 - 58 Vol. 81;
11. Menconi M. E.; Grohmann D.; Borghi P., (2014). Dynamic thermal simulation on retrofitting scenarios for semi-extensive sheep farms. *Journal Of Agricultural Engineering* (ISSN:2239-6268) p. 80 - 89 Vol. 45;
12. Menconi M. E., Stella G., Grohmann D. (2013). Revisiting the food component of the ecological footprint indicator for autonomous rural settlement models in Central Italy. *Ecological Indicators* (ISSN:1470-160X) p. 580 - 589 Vol. 34; ;
13. Grohmann D., Menconi M. E., Chiappini M. (2015). Optimization of thermal performances in livestock housing design solutions using Genetic Algorithms. *International Journal Of Sustainable Agricultural Management And Informatics*, 1(2):142-162;
14. Menconi M. E., Chiappini M., Grohmann D. (2013). Implementation of a genetic algorithm for energy design optimization of livestock housing using a dynamic thermal simulator. *Journal Of Agricultural Engineering* (ISSN:2239-6268) pp. 18 - 18 Vol. XLIV s1;
15. Grohmann D., Menconi M. E. (2013). Optimization of sustainable buildings envelopes for extensive sheep farming through the use of dynamic energy simulation. *Journal Of Agricultural Engineering* (ISSN:2239-6268) pp. 19 - 19 Vol. XLIV s1;
16. Menconi M.E., Grohmann D. (2013). Statistical assessment of vegetation dynamics within protected areas using remote sensing data. *Journal Of Agricultural Engineering* (ISSN:2239-6268) p. 29 - 37 Vol. 44;

#### **International Conference's proceedings**

17. Grohmann D., Heland L., Menconi M.E. (2018). The Father Of Seattle's Community Gardens Turns 45: Lessons Learned At Picardo Farm P-Patch. In: *Landscape of Conflict. ECLAS Conference 2018 proceedings*. 10-11 September, Ghent –Belgium;
18. Grohmann D., Corvaglia C., Menconi M.E. (2018). Community gardens as healing tools for patients with eating disorders. In: *Healthy landscapes: green, regeneration, safety conference proceedings*. 6-8 June, Bologna-Italy.
19. Menconi M.E., Grohmann D. (2018). A Structured listening method to retrofit an urban park evaluating the urban green system. In: *Healthy landscapes: green, regeneration, safety conference proceedings*. 6-8 June, Bologna-Italy.
20. Grohmann D., Menconi M. E. (2017). Small-scale green infrastructures: a literary review of the future of urban green spaces design. In: *Green Infrastructure: nature based solutions for sustainable and resilient cities*. 4-7 April, Orvieto – Italy;
21. Grohmann D., Menconi M. E. (2016). The Vegetable Gardens of St. Peter (Perugia-Italy): the Rebirth of a Forgotten Place. In: *IFLA 2016, World Congress International Federation of landscape Architects: Tasting the Landscape*. 20-22 April, Turin - Italy;

22. Grohmann D., Menconi M.E. (2016). Green infrastructures: tree trenches for stormwater management in urban environments. In: 44th ATAE Congress: Actual Task on Agricultural Engineering. 23-26 February, Opatija - Croatia
23. Dell'Anna S., Menconi M. E., Grohmann D. (2014). Off-grid production and processing units: renewable energy for sustainable agriculture in marginal areas for small-scale farms. Agroscope, In: International Conference of Agricultural Engineering. 6-10 July, Zurich;
24. Grohmann D., Menconi M. E. (2014). Design of a pig feeder for free range fattening station in rural marginal areas. Agroscope, In: International Conference of Agricultural Engineering AgEng 2014. 6-10 July 2014, Zurich;
25. Menconi M. E., Chiappini M., Grohmann D. (2013). Optimization of thermal performances in livestock housing design solutions using Genetic Algorithms. From effective to intelligent farming and forestry In: International Commission of Agricultural and Biological Engineers, Section V. CIOSTA XXXV Conference "From Effective to Intelligent Agriculture and Forestry". 3-5 July 2013, Billund- Denmark;
26. Grohmann D., Menconi M.E. (2013). The use of dynamic energy simulation for the optimization of sustainable building envelopes: an application for extensive sheep farming. From effective to intelligent farming and forestry In: International Commission of Agricultural and Biological Engineers, Section V. CIOSTA XXXV Conference "From Effective to Intelligent Agriculture and Forestry". 3-5 July 2013, Billund-Denmark;
27. Pelorosso R., Gobattoni F., Menconi M.E., Vizzari M., Grohmann D., Ripa M.R., Leone A. (2012). Landscape development scenario analysis by Pandora model: an application in Umbria region (Italy). Agriculture and engineering for a healthier life In: Internationa