

UNISCAPE Research and Teaching

Università degli Studi della Tuscia

- **REPRESENTATIVE(S) OF UNISCAPE:** Rita Biasi
 - **POSITION:** Head of the Department
 - **Email:** biasi@unitus.it
 - **UNIVERSITY:** Università degli Studi della Tuscia
 - **DEPARTMENT(S) INVOLVED:** Department for the innovation of the biological, agri-food and forest systems.
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EDUCATION PROGRAMMES

Bachelor or equivalent:

- Landscape and environmental planning and design (joint degree with Sapienza, University of Rome)
- Forest and Nature sciences

Master:

- Forestry and Environmental Sciences (MSc totally in English)
- Conservation and Restoration of Cultural Heritage
- Landscape architecture (joint degree with Sapienza, University of Rome)

Post graduate | Specialization | Ph.D. :

- International Master Landscape Design (provided by the University Consortium for Socioeconomic and Environmental Research – CURSA - and Private Association)
 - Ph.D programme in Science, technologies and biotechnologies for sustainability
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RESEARCH ON LANDSCAPE

main issues/ topics of research

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The research activity of the Department groups researches belonging to different disciplines, although used to operate with an highly integrated, complementary and transdisciplinary approach. Research topics decline from the field and the forest, to the city and relate to the forest, agricultural and cultural landscapes in their different expressions and contexts, including the naturalistic and urban landscape contiguities, the rural-urban ecosystem, the variety of monumental, archaeological and artistic historical emergencies. Research activity is carried out in the field of forest system management, forest planning and urban forestry, mainly focused on: i) the knowledge of the plant-soil-atmosphere interactions, ii) the sustainable use of genetic resources aiming forest landscape resilience (i.e. mitigation and adaptation to

the ongoing and predictable environmental changes), iii) the urban green infrastructure's design and management, iv) the optimisation of the urban forests' s ecosystem services, v) the development and validation of tools and methodologies of proximal and remote sensing for landscape monitoring. Research is also performed in the field of the agricultural landscape by studying: i) the landscape and soil transformation, ii) the identification of strategies for agro-forest systems' resilience, iii) the measurement of the landscape-related ecosystem services, iv) the traditional agricultural landscapes, v) the Mediterranean landscape structure. Finally, the researches of the Department are involved in the implementation of landscape design projects as research products for a better quality life in the rural and urban open spaces. Iuav operative unit is working on Landscapes of water from the Venice lagoon to the Brenta Riviera crossing Marghera. Insular Venice, for the unique urban structure based on slow mobility, contributes to the livability of open spaces reflected and the psychophysical well-being of its inhabitants. The historic center, like the surroundings, are not without critical points. Problematic realities require a sustainable transformation based on a clear vision of the future and a different design approach, more humanistic and transdisciplinary. The lagoon margins are areas of relationship between Venice and the metropolitan area. Green infrastructures could integrate ongoing or planned transformation actions, putting them into a system for regeneration of urban and industrial areas. Marghera will be the urban / industrial area to be redeveloped through green (or blue) infrastructures, path systems, places and architectures with a landscape connection between the lagoon and the Brenta Riviera.

TOPICS

AGRICULTURAL AND FOREST LANDSCAPE



CULTURAL LANDSCAPES



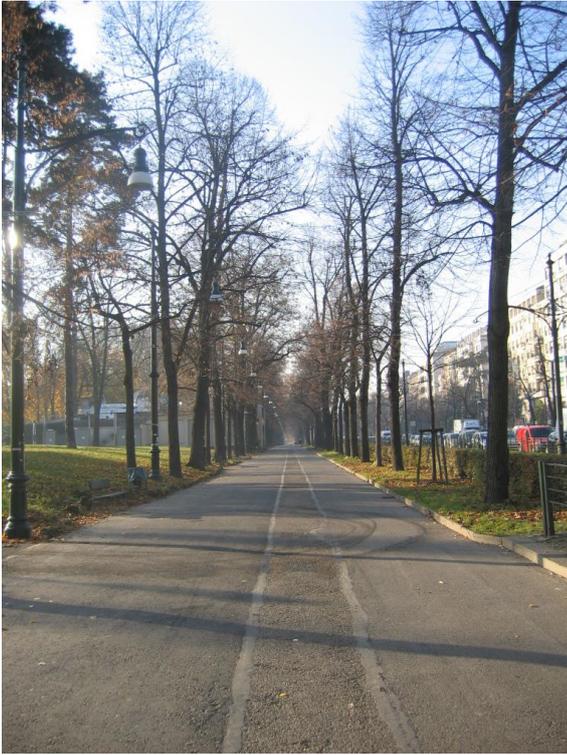
FOREST MANAGEMENT



LANDSCAPE PLANNING AND DESIGN



URBAN FORESTRY



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- Biasi, R., Brunori, E., Ferrara, C., Salvati, L. 2017. Towards sustainable rural landscapes? a multivariate analysis of the structure of traditional tree cropping systems along a human pressure gradient in a Mediterranean region. *Agroforestry Systems* 91(6), pp. 1199-1217.
- Gasparella, L., Tomao, A., Agrimi, M., (...), Portoghesi, L., Barbati, A. 2017. Italian stone pine forests under Rome's siege: learning from the past to protect their future. *Landscape Research* 42(2), pp. 211-222.
- Di Lallo, G., Maesano, M., Masiero, M., Mugnozza, G.S., Marchetti, M. 2016. Analyzing Strategies to Enhance Small and Low Intensity Managed Forests Certification in Europe using SWOT-ANP. *Small-scale Forestry* 15(3), pp. 393-411.
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- Corona, P., Ascoli, D., Barbati, A., (...), Sanesi, G., Chianucci, F. 2015 Integrated forest management to prevent wildfires under Mediterranean environments. *Annals of Silvicultural Research* 39(1), pp. 1-22 - Kröel-Dulay, G., Ransijn, J., Schmidt, I. K., Beier, C., De Angelis, P., De Dato, G., ... Kongstad, J. 2015. Increased sensitivity to climate change in disturbed ecosystems. *Nature communications*, 6, 6682.