



PhD SDC

SUSTAINABLE DEVELOPMENT
AND CLIMATE CHANGE

Cycle 37

Dissertation Defence

Sala del Camino,
Scuola Universitaria Superiore IUSS Pavia
28 January 2025





PhD SDC
SUSTAINABLE DEVELOPMENT
AND CLIMATE CHANGE



webinar

Cycle 37

Dissertation Defence

Sala del Camino, Scuola Universitaria Superiore IUSS Pavia

28 January 2025

Programme

Commission

prof. Mario Martina, Scuola IUSS Pavia
prof. Michele Pezzagno, University of Brescia
dr. Andrea Alessandri, CNR ISAC



PhD SDC
**EARTH SYSTEM
AND ENVIRONMENT**



PhD SDC
**HEALTH AND
ECOSYSTEMS**



PhD SDC
**TECHNOLOGY
AND TERRITORY**



PhD SDC
**AGRICULTURE
AND FORESTRY**

8.20



Fabio Sporchia, University of Siena and IUSS Pavia

Towards a standardization of sub-national greenhouse gas accounting approach and a fairer international responsibility attribution method

Supervisor: prof. Federico Pulselli, University of Siena

Co-supervisor: prof. Bhavik Bakshi, Arizona State University

Expert: prof. Lucrezia Lamastra,
Catholic University of the Sacred
Heart

9.00



Gianmarco Del Sarto, Scuola Normale Superiore di Pisa and IUSS Pavia

Some perspectives on Climate Change through energy balance models

Supervisor: prof. Franco Flandoli, Scuola Normale Superiore di Pisa

Expert: prof. Stefano Galatolo,
University of Pisa

9.40



Simone Palazzolo, University of Messina and IUSS Pavia

Exploring the role of the rising water temperature in the pathogenesis of VNNv infection

Supervisor: prof. Fabio Marino, University of Messina

Expert: prof. Nicolo Zizzo,
University of Bari

10.20



Daniele Giubergia, University of Cagliari and IUSS Pavia

Modeling Spatial-Social Influence on the Choice of Sustainable Travel Alternatives

Supervisor: prof. Italo Meloni, University of Cagliari

Co-supervisor: Francesco Piras, University of Cagliari

Expert: prof. Marco Diana,
Polytechnic of Turin

11.00



Giuseppe Cappelli, University of Cassino and IUSS Pavia

Safety-oriented Design for Cycling and Pedestrian Mobility

Supervisor: Prof. Mauro D'Apuzzo, University of Cassino

Expert: prof. Vittorio Nicolosi,
University of Rome Tor Vergata.

11.40



Chiara Ceseracciu, University of Sassari and IUSS Pavia

Towards Adaptive Governance of Mediterranean Agricultural Systems: integrated approaches to enhance response capacities to water and land degradation challenges

Supervisor: prof. Pier Paolo Roggero, University of Sassari

Co-supervisors: Romina Deriu, University of Sassari - Thi Phuoc Lai Nguyen, AIT

Expert: prof. Stefania Leone,
University of Salerno



webinar

Commission

Prof. Mario Martina, Scuola IUSS Pavia

Prof. Michele Pezzagno, University of Brescia

Prof. Paolo Cherubini, Swiss Federal Research In.
WSL



PhD SDC
EARTH SYSTEM
AND ENVIRONI



PhD SDC
SOCIO-ECONOMIC
RISK AND IMPACTS



PhD SDC
TECHNOLOGY
AND TERRITORY



PhD SDC
AGRICULTURE
AND FORESTRY

12.20



Federica Perazzotti, University of Sassari and IUSS Pavia

Late Pleistocene coastal and climate evolution of Mallorca Island (Spain)

Supervisor: prof. Vincenzo Pascucci, University of Sassari

Co-supervisors: dr. JuDr Juan José Fornós Astó, Universitat de les Illes Balears

Expert: prof. Alida Timar,
Babeş-Bolyai University

14.00



Maria Edith Casacchia, University of L'Aquila and IUSS Pavia

Unlocking new pathways in sustainable catalysis through organocatalysis

Supervisor: prof. Armando Carlone, University of L'Aquila

Co-supervisor: dr. Fabio Pescioli, University of L'Aquila

Expert: dr. Antonio Del Vecchio,
University of Pisa

14.40



Samuele Risoli, University of Pisa and IUSS Pavia

Biocontrol of Fusarium head blight in wheat: using hyperspectral data and metabolomics for a sustainable management

Supervisor: prof. Cristina Nali, University of Pisa

Co-supervisors: prof. Lorenzo Cotrozzi, University of Pisa

Expert: dr. Barbara Sladonja,
University of Zagreb

15.20



Gianfranco Semeraro, University of Bari and IUSS Pavia

Artificial Intelligent systems supporting public administration processes

Supervisor: prof. Giuseppe Pirlo, University of Bari

Expert: dr. Moisés Díaz Cabrera,
Universidad de Las Palmas de
Gran Canaria

16.00



Costanza Bosone, University of Pavia and IUSS Pavia

Changing markets and the role of sustainability: an European perspective

Supervisor: prof. Paolo Giudici, University of Pavia

Co-supervisors: prof. Paola Cerchiello, University of Pavia

Expert: dr. Paolo Pagnottoni,
University of Insubria.

16.40



Hamzah Faquseh, University of Brescia and IUSS Pavia

Climate Change effects on groundwater resources and sustainable management strategies

Supervisor: prof. Giovanna Grossi, University of Brescia

Expert: dr. Carla Ferreira,
Polytechnic Institute of Coimbra

18.00

Announcement of the final evaluation



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