FRANCESCO MORARI

DEPARTMENT OF ENVIRONMENTAL AGRONOMY AND CROP PRODUCTION, UNIVERSITY OF PADOVA,
AGRIPOLIS, LEGNARO (PADOVA), ITALY

Education

University of Padova , Agricultural Science, B.S. 1991
University of Padova, Environmental Agronomy (Soil Physics), Ph.D. 1995

Research Interests

Sustainability of agricultural systems and soil and water quality; soil mapping and precision agriculture; best management practices; GHGs monitoring and mitigation.

Appointments

2017-present Professor of Agronomy and Soil Physics, Department of Environmental Agronomy and Crop Production, University of Padova
2017-2022 Adjunct Professor, Department of Crop and Soil Science, University of Georgia, USA
2005-2017 Associate Professor, University of Padova
1998-2005 Researcher, University of Padova.
1995-1998 Assistant Professor of Environmental Agronomy, University of Padova.

Teaching

•Soil Physics (taught annually)
•Soil and water conservation (taught annually)
•Agricultural Management of Biogeochemical Cycles (taught annually)

Synergistic Activities

•Co-developer of the PROTINUS group, a multi-disciplinary team from the EU and three associated countries, namely France, Italy, Denmark, New Zealand, Mexico and Japan, dedicated to combine advanced, experimental and theoretical research expertise in soil physics and chemistry, microbiology, image analysis, computer sciences, and systems modeling.

•Co-Leader and developer of a dual Master's degree in Sustainable Agriculture between the the University of Padova, Italy and the University of Georgia, USA.

•Co-developer of the TransAtlantic Precision Agriculture Consortium (TAPAC) – a group of 3 American and 3 European universities dedicated to internationalizing the teaching, research and extension programs of the member universities.

Grants (active)

"Monitoring and spatial estimation of agro-climatic-environmental indicators on crop systems of the Veneto RDP, in the transition period 2022-2024" (Bur n. 45 del 05/04/2022) Regional Veneto Government.

"Hyper-resolution crop yield estimates and extreme events crops shocks monitoring by integrating multiple SATellite data, modelling and combine harvester fleets" HYPERCROP, ESA AO/1-10468/20/I-FvO. FUTURE EO-1 EO SCIENCE FOR SOCIETY PERMANENTLY OPEN CALL FOR PROPOSALS European Space Agency.

"Implementation of soil compaction risk assessment system – end-user's evaluation of potentials and barrier" SoCoRisk. ICT-AGRI-FOOT 2019-Joint Call.

"Integration of modeling and remote sensing techniques for hailstorm and strong wind damage estimation" HAILSTORM. Cattolica Assicurazione.

Authors of more than 270 scientific (HI 30) and technical papers, 2 patentsand 1 book.

Collaborators, Mentors, and Mentees

Collaborations (last 5-years)
Per Schoenning & Mathieu Lamande, Aarhus University (DK); George Vellidis & Miguel Cabrera, University of Georgia (USA); Daniel Corwin & Elia Scudiero, USDA-ARS United States Salinity Laboratory, Riverside (USA); Patrice Delmas, University of Auckland (NZ); Celine Duwig, Institute of Research for Development, Marseille, (FR); Budiman Minasny, University of Sydney (AU); Karin Mueller, Plant & Food Research (NZ); Brenda Ortiz, Auburn University (USA); Carlo Grignani & Chiara Bertora, University of Turin; Marco Bittelli, University of Bologna; Marco Bindi & Roberto Ferrise, University of Florence.

Graduate Students
14 Ph.D. students and 40 M.S. students advised as major Professor

Undergraduate Students
45 undegraduate students advised as major Professor