

**CURRICULUM VITAE
ET STUDIORUM**
Dott.ssa Bertuzzi Jennifer



PERSONAL INFORMATION

Name
Address
Phone
E-mail
Tax code
Nationality
Date of birth

WORK EXPERIENCE

- Date (from - to) November 2021- April 2022
- Experience Contract of coordinated and continuous collaboration for the Department of Life Sciences of the University of Trieste in the framework of the research project "Investigation of the relationship between the level of Lake Doberdò and the achievement of the quality objectives identified by the Directive 2000/60CE".
Analysis of Sentinel 1, Sentinel 2, Landsat 5 satellite images and LiDAR data, use of the geospatial processing service Google Earth Engine and classification algorithms in GRASS GIS for the delineation of a monitoring protocol to assess the hydrodynamics of Lake Doberdò.
- Date (from - to) December 2017 - May 2018
- Experience Barmaid and waitress at Michele Merlini's 'Baker Street' pastry shop, Cremona (CR), Italy.

FORMATION

- Date (from - to) 2022 - ongoing
- Degree PhD at the Department of Agricultural, Food and Environmental Sciences of the University of Perugia.
Curriculum: "Sustainable production system and environment".
Title of the research: "Technologies for a sustainable management of water resources in agriculture".
Project: Agritech spoke 3. Activity 1 - Ground-based (plant, soil climate) sensors and remote sensing tools to support irrigation management. Activity 4 - Agro-hydrological and hydraulic modeling for water management optimization
- Supervisor Prof.ssa Francesca Todisco
- Date (from - to) September 2023 – January 2025
- Activity Permanence at the Center for Ecological Research and Forest Applications (Barcelona) as part of my doctoral research. During this collaboration, I had the

opportunity to deepen my knowledge of the SurEau hydraulic model, which was then used in my doctoral project, through its application within the European FORGENIUS project (<https://www.forgenius.eu/>).

- Date (from - to) 2018-2020
 - Degree awarded Master's Degree in 'Global Change Ecology' at the University of Trieste, Department of Life Sciences (LM-6 Master's Degree in Biology).
 - Title of thesis 'Use of satellite remote sensing techniques for the identification of natural and semi-natural features in an agricultural area in Cremona'
Hybrid multi-sensor classification of Sentinel satellite images and subsequent identification of the classes that best represent the natural and semi-natural vegetation within an agricultural matrix.
 - Supervisor Prof. Alfredo Altobelli
 - Final grade 110/110
 - Date of achievement 26/05/2021
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- Date (from - to) 2014-2018
 - Degree awarded Bachelor's Degree in Biological Sciences (L-13) at the University of Milan, Faculty of Science and Technology.
 - Title of thesis 'Structure, function and activity of transcription factors'
Use of different biochemistry and molecular genetics approaches to study the relationship between structure and function of relevant transcription factors involved in mechanisms of cellular growth control and differentiation.
 - Supervisor Prof. Gnesutta Nerina Bruna
 - Final grade 100/110
 - Date of achievement 15/10/2018
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- Date (from - to) 2009-2014
 - Degree awarded Scientific Diploma at Liceo scientifico G. Aselli (CR)
 - Final grade 78/110

SKILLS

MOTHER TONGUE ITALIAN

OTHER LANGUAGES

PERMANENCE AT THE CENTER FOR ECOLOGICAL RESEARCH AND FOREST APPLICATIONS (BARCELONA) AS PART OF MY DOCTORAL RESEARCH. DURING THIS COLLABORATION, I HAD THE OPPORTUNITY TO DEEPEN MY KNOWLEDGE OF THE SUREAU HYDRAULIC MODEL, WHICH WAS THEN USED IN MY DOCTORAL PROJECT, THROUGH ITS APPLICATION WITHIN THE EUROPEAN FORGENIUS PROJECT ([HTTPS://WWW.FORGENIUS.EU/](https://www.forgenius.eu/)).

• Level C1

SPANISH

• Level BEGINNER

TECHNICAL SKILLS AND ABILITIES

GOOD SKILLS IN USING RSTUDIO, SNAP, CLOUDCOMPARE, QGIS AND GRASS GIS SOFTWARE. BASIC KNOWLEDGE OF THE GEOSPATIAL PROCESSING SERVICE GOOGLE EARTH ENGINE. KNOWLEDGE OF REMOTE SENSING AND GIS TECHNIQUES NECESSARY FOR THE IDENTIFICATION, CLASSIFICATION, ANALYSIS AND MONITORING OF VEGETATION AND BIODIVERSITY CHARACTERISTICS.

KNOWLEDGE OF THE FUNCTIONAL BASIS OF PLANT ADAPTATION/ACCLIMATISATION TO ENVIRONMENTAL STRESSES AND THE IMPACT OF MAJOR GLOBAL CHANGE FACTORS, SUCH AS DROUGHT, ON PLANT PHYSIOLOGY. KNOWLEDGE OF SOME MODELS FOR ESTIMATING ACTUAL EVAPOTRANSPIRATION IN AGRICULTURE (PENMAN-MONTEITH, SWAP, SUREAU). PRACTICAL SKILLS IN THE MONITORING OF THE HYDRIC STATUS OF PLANTS AND SOIL OBTAINED DURING THE PHD, THROUGH INSTRUMENTS SUCH AS SOIL MOISTURE PROBES (FDR AND TDR), TENSIMETERS, SHOLANDER CHAMBER, PORTABLE PHOTOSYNTHESIS SYSTEM (LI-COR6400), SAP FLOW SENSORS AND DENDROMETERS.

PUBLICATION

Bertuzzi, J., Martin-StPaul, N., Cochard, H., Delzon, S., Torres Ruiz, J. M., & Mencuccini, M. (2025). Exploring the role of drought risk-related traits in individuals within *Pinus pinaster* populations using measured data and models.

Vergni, L., Tosi, G., Bertuzzi, J., Rossi, G., Farneselli, M., Tosti, G., ... & Todisco, F. (2024). Using Beerkan Procedure to Estimate Hydraulic Soil Properties under Long Term Agroecosystems Experiments. *Applied Sciences*, 14(9), 3817.

Todisco, F., Pannacci, E., Vergni, L., Tosi, G., Bertuzzi, J., Poccia, A., ... & Conti, E. (2024, December). Investigation on the Most Suitable Herbaceous Species to Set up the Buffer Strips for Nature-Based Protection of Natural Resources and Environment. In *AGU Fall Meeting Abstracts* (Vol. 2024, No. 208, pp. GC51S-0208).

Todisco, F., Bertuzzi, J., Tosi, G., Vergni, L., Rossi, G., Fabri, S., ... & Rossi, G. (2024, October). Exploring a New Technique for Measuring the Plant's Sap Flow Based on an Optical Fiber. In *2024 IEEE International Workshop on Metrology for Agriculture and Forestry (MetroAgriFor)* (pp. 621-625). IEEE.

Vergni, L., Tosi, G., Bertuzzi, J., Rossi, G., Farneselli, M., Tei, F., ... & Todisco, F. (2024). Caratterizzazione idraulica di terreni con differenti tipi di gestione del suolo mediante il metodo BEST. *QUADERNI DI IDRONOMIA MONTANA*, 37, 333-340.

Vergni, L., Casadei, S., Cencetti, C., Ortenzi, S., MASSIMI ALUNNO, A., Bertuzzi, J., ... & Todisco, F. (2024). Updating Surface Area-Volume Curves in the Small Reservoirs. In *Atti del XXXIX Convegno Nazionale di Idraulica e Costruzioni Idrauliche* (pp. 1017-1019). Dipartimento di Ingegneria e Architettura, Università di Parma.

Todisco, F., Bertuzzi, J., Tosi, G., Vergni, L., Farneselli, M., Falcinelli, B., & Tei, F. (2024). Comparison of actual evapotranspiration simulated by SWAP and Penman-Monteith models in tomato crop. *QUADERNI DI IDRONOMIA MONTANA*, 37, 195-202.

Todisco, F., Di Francesco, S., Casentini, B., Casadei, S., Giannone, F., Fazi, S., ... & Cencetti, C. (2024). Small reservoirs restoration: Green blu-infrastructures to enhance rural area resilience To climate change, SIGHTING. In *Biosystems Engineering Promoting Resilience to Climate Change-Book of Abstract* (pp. 56-56). Università degli Studi di Padova.

Del Fabbro Machado, L., Venudo, A., Altobelli, A., Bertuzzi, J., Zampieri, F., & Gatti, A. (2022). *Ecopolitana: A Plan of Cities, Territory, Landscape, and Ecology*. *Sustainability*, 14(7), 4044.

ATTENDANCE AT CONFERENCES

I participated as auditor at the 8th Galileo Conference on "A European Vision for Hydrological Observation and Experimentation", held during 12-15 June 2023 at Napoli, Italy

I participated as auditor at the 25th International Congress of ICID, held during 02-04 November 2023 at Andhra Pradesh, India.

I participated as oral relator at the national congress "La ricerca nel settore dell'idraulica agraria, dell'irrigazione e delle sistemazioni idraulico-forestali, Giornate di Studio in onore del Prof. Giuseppe Provenzano", held during 04-05 December 2023 at Palermo, Italy.

I participated as oral relator (plus poster) at the 6th Xylem International Meeting, held during 18-20 March 2025 at Sevilla, Spain.

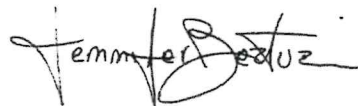
I participated as oral relator at the AIIA 2025 International Conference, held during 21-24 September 2025 at Reggio Calabria, Italy.

La sottoscritta BERTUZZI JENNIFER dichiara che tutti i fatti riportati nel presente curriculum corrispondono a verità ai sensi e per gli effetti degli artt. 46 e 47 del D.P.R. 445/2000. Il sottoscritto dichiara di essere a conoscenza delle sanzioni penali cui incorre in caso di dichiarazione mendace o contenente dati non più rispondenti a verità, come previsto dall'art. 76 del D.P.R. 28.12.2000, n. 445.

La sottoscritta dichiara di essere a conoscenza dell'art. 75 del D.P.R. 28.12.2000, n. 445, relativo alla decadenza dai benefici eventualmente conseguenti al provvedimento emanato, qualora l'Amministrazione, a seguito di controllo, riscontri la non veridicità del contenuto della suddetta dichiarazione.

Si allega a tale scopo copia del documento di identità in corso di validità.

CREMONA, 12/11/2025



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