



Curriculum Vitae

Personal information

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Alice Puppini

Work experience

December 2025 – present

Postdoctoral Researcher

Scientific and management support to the Horizon Europe projects:

- Blue Green Governance (Innovative land-sea governance schemes based on scientific evidence and societal choices that link marine policies with the management of the land and inland waters)
- TRANSEATION (Advancing Ecosystem-Based Management through Hybrid Blue-Grey Infrastructures in Marine and Coastal Areas)
- GRACE (Growing Climate Resilience in Remote rural Areas through Community Empowerment)

Euro-Mediterranean Center on Climate Change | Ca' Foscari University of Venice, Venice, Italy

March 2024 – November 2025

Postdoctoral Researcher

Research project: "Analysis of the effects of climate changes and human pressure on the ecogeomorphological evolution of estuarine ecosystems and related ecosystem services"

Supervisor: Dr. Andrea D'Alpaos

Department of Land, Environment, Agriculture and Forestry, University of Padova, Italy

March 2023 – March 2024

Postdoctoral Researcher

Research project: "Tidal channel network dynamics as eco-morphodynamic drivers of coastal plain areas"

Supervisor: Dr. Alvise Finotello

Department of Geosciences, University of Padova, Italy

March 2022 – March 2023

Technical Specialist (Cat. D)

Activities involved River/Coast/Wetland Contracts, application of Water Management Plan, Directive on Ecological Flows, and Derivation Directive

Department of Environment and Ecological Transition

Integrated Water Service and Water Protection Office

Veneto Region, Venice, Italy

April 2017- September 2019

Land Use Planning and Environmental Assessment

Activities included environmental screening, EIA, SEA, Impact Assessment (VINCA) procedures, assessment of Ecosystem Services

Terre srl, Venice, Italy

February – March 2016

Internship

Activities included photo-interpretation, geomorphological map elaboration using GIS software (ArcGIS, QGIS), literature review

CNR Institute of Marine Sciences, Venice, Italy

May – July 2013

Internship

Investigation on the impact of recreational fishing in the North Adriatic Sea, questionnaire distribution, and data analysis

Ca' Foscari University of Venice, Italy

Education and training

October 2019 – October 2022

Ph.D. in Geosciences

Thesis Title: "Soil Organic Matter and Carbon dynamics in Venice Lagoon salt marshes under natural and anthropogenic forcing"

Supervisor: Prof. A. D'Alpaos

Co-supervisor: Prof. M. Marani

Defence and award date: 16/02/2023

Department of Geosciences, University of Padova, Italy

December 2018

Qualification for the practice of Agronomist and Forestry Doctor

University of Padova, Italy

October 2014 – March 2017

Master's Degree in Environmental Sciences

(Curriculum in Management and Evaluation of Environmental Systems, Joint International Master Programme in Sustainable Development)

Thesis Title: "Relationship between geomorphology and quality of the semi-fixed dune landscape"

Final Evaluation: 110/110 with honors (e lode)

Ca' Foscari University of Venice, Italy

March – August 2015

Mobility semester

(Courses: Land Management, Sustainable Energy Economics, Water Management)

Universität Leipzig, Germany

October 2011 – October 2014

Bachelor's Degree in Environmental Sciences

Thesis Title: "Changes in the mouth section of the Piave River over the last century"

Final Evaluation: 110/110

Ca' Foscari University of Venice, Italy

Personal skills and competences

Native Italian. Fluent in English, with extensive experience in academic writing and professional communication.

Technical skills and competences

Field sampling techniques for soil sample collection, vegetation surveys, topographic surveys. Laboratory techniques for soil organic content analysis (LOI), particle size analysis (Mastersizer 2000 and 3000), sample preparation for Elemental Analysis and stable isotope analysis via mass spectrometry.

Computer skills and competences

GIS: QGIS, ArcGIS (Esri), Agisoft Metashape
Data Analysis: Matlab, R
Office Tools: Microsoft Word, Excel, PowerPoint
Typesetting: LaTeX, Overleaf
Graphics & Visualization: Inkscape

Awards and recognitions

EGU 2022 Early Career Scientist's Travel Grant, EGU General Assembly 2022

Selected as an exemplary iPoster for AGU Fall Meeting 2021

Title: "Spatial and Vertical Patterns of Soil Organic Matter in the Salt Marshes of the Venice Lagoon (Italy)"

Recognized by iPosterSessions as a model presentation and featured on their official website as a best practice case for future authors.

"Alberto Tomasin" Degree Award, for graduates of the Master's Degree in Environmental Sciences 2017, with the thesis titled "Relationship between geomorphology and quality of the semi-fixed dune landscape"

Publications

Peer-reviewed journals

- Puppini A.**, Tognin D., Ghinassi M., D'Alpaos A., Lazarus E. D., Gao C., & Finotello A. (2025). Rapid infill of abandoned tidal channels creates hotspots for blue-carbon accumulation in coastal wetlands. *Geophysical Research Letters*, 52, e2024GL113705, doi.org/10.1029/2024GL113705
- Puppini A.**, Tognin D., Ghinassi M., Franceschinis E., Realdon N., Marani M., & D'Alpaos A. (2025). Depth-Distribution Patterns of Soil Organic Matter in the Tidal Marshes of the Venice Lagoon (Italy): Signatures of Depositional and Environmental Conditions. *Journal of Geophysical Research: Biogeosciences*, 130, e2024JG008327, doi.org/10.1029/2024JG008327
- Puppini A.**, Tognin D., Paccagnella M., Zancato M., Ghinassi M., D'Alpaos C., Marani M., & D'Alpaos A. (2024). Blue Carbon Assessment in the Salt Marshes of the Venice Lagoon: Dimensions, Variability and Influence of Storm-Surge Regulation. *Earth's Future*, 12, 1–14, doi.org/10.1029/2024EF004715
- Puppini A.**, Tognin D., Ghinassi M., Franceschinis E., Realdon N., Marani M., & D'Alpaos A. (2024). Spatial patterns of organic matter content in the surface soil of the salt marshes of the Venice Lagoon (Italy). *Biogeosciences*, 21, 2937–2954, doi.org/10.5194/bg-21-2937-2024
- Yang Z., Tognin D., Finotello A., Belluco E., **Puppini A.**, Silvestri S., et al. (2023). Long-term monitoring of coupled vegetation and elevation changes in response to sea level rise in a microtidal salt marsh. *Journal of Geophysical Research: Biogeosciences*, 128, e2023JG007405. doi.org/10.1029/2023JG007405
- Puppini A.**, Roner M., Finotello A., Ghinassi M., Tommasini L., Marani M., & D'Alpaos A. (2023). Analysis of Organic Matter Decomposition in the Salt Marshes of the Venice Lagoon (Italy) Using Standard Litter Bags. *Journal of Geophysical Research: Biogeosciences*, 128(6), e2022JG007289. doi.org/10.1029/2022JG007289

Main scientific communications

- Del Vecchio S., Fantinato E., Silan G., **Puppini A.**, Buffa G. (2018). The role of dune system morphology on habitats development. Climate Change and its implication to Smart ICZM and sustainable Blue Growth, 18-20 April 2018
- Puppini A.**, Roner M., Finotello A., Ghinassi M., Tommasini L., Marani M., & D'Alpaos A. (2021). Characterization of organic matter decomposition in the Venice Lagoon using the Tea Bag Index. EGU General Assembly 2021, online, 19 -30 April 2021, doi.org/10.5194/egusphere-egu21-3355
- Puppini A.**, Tognin D., Paccagnella M., Zancato M., Ghinassi M., Marani M., D'Alpaos A. (2022). Blue Carbon assessment in the salt marshes of the Venice lagoon (Italy). Proceedings of the 10th International Congress of Tidal Sedimentology Tidalites 2022, Matera, Italy, 3-5 May 2022
- Puppini A.**, Tognin D., Ghinassi M., Franceschinis E., Realdon N., Marani M., D'Alpaos A. (2022). Distribuzione del contenuto di materia organica nei suoli di barena della laguna di Venezia. XXXVIII Convegno Nazionale di Idraulica e Costruzioni Idrauliche, online, 4-7 September 2022
- Puppini A.**, Tognin D., Paccagnella M., Zancato M., Ghinassi M., Marani M., and D'Alpaos A. (2023). Blue carbon stock in marsh soil and impacts of flood regulation in the Venice Lagoon (Italy), EGU General Assembly 2023, Vienna, Austria, 24–28 April 2023, doi.org/10.5194/egusphere-egu23-504, 2023 - *Selected as Highlight*
- Puppini A.**, Tognin D., Ghinassi M., Franceschinis E., Realdon N., Marani M., D'Alpaos A. (2023). Distribution patterns and control of soil organic matter and carbon in coastal marshes: a case study in the Venice Lagoon (Italy). 13th Symposium on River, Coastal and Estuarine Morphodynamics RCEM 2023, Urbana-Champaign, IL, USA, September 25-28, 2023
- Puppini A.**, Tognin D., Ghinassi M., D'Alpaos A., Lazarus E. D., Gao C. & Finotello A. (2024). Abandoned Tidal Channels: Hotspots for Blue Carbon Accumulation? - EP12B-06. Oral presentation. AGU Annual Meeting 2024 - Washington, D.C. 9 - 13 December 2024
- Puppini A.**, Tognin D., Ghinassi M., D'Alpaos C., Marani M. & D'Alpaos A. (2024). Unravelling the Variability in Blue Carbon Potential Under Natural and Anthropogenic Changes - OS13H-06. Oral presentation. AGU Annual Meeting 2024 - Washington, D.C. 9 - 13 December 2024
- Puppini A.**, Tognin D., Ghinassi M., D'Alpaos C., Marani M. & D'Alpaos A. (2025). Blue Carbon Potential of Venice Lagoon Marshes: Challenges and Opportunities for Coastal Management. Convegno RETURN Sfide scientifiche e gestionali per una società resiliente ai rischi ambientali in un clima che cambia - Trieste, 4-6 March 2025
- Puppini A.**, Blount T., Ghinassi M., Finotello A. & D'Alpaos A. (2025). Blue Carbon in Salt Marshes of the North Adriatic Sea (Italy): Challenges and Opportunities for Wetland Restoration. 14th Symposium on River, Coastal, and Estuarine Morphodynamics - Barcelona, Spain, 1-5 September 2025

Invited talks and seminars

- May 2025 - “Unlocking the Blue Carbon Potential of Coastal Wetlands: Insights from the Venice Lagoon”, Spring 2025 AGU Biogeosciences Early Career Seminar, online
- October 2023 - “Organic Matter(s): marsh Soil Organic Matter and Blue Carbon dynamics in the Venice Lagoon”, Landscapes Live, Geomorphology division of European Geosciences Union Online Seminars in Geomorphology, online
- October 2021 - “Salt-marsh sediments in the Venice Lagoon: organic matter content and grain size”, Workshop NON EXTRACTIVE ARCHITECTURE Introductory with the Institute for Advanced Architecture of Catalonia (IAAC) - VAC Foundation, Venice, Italy
- October 2015 “Cambiamenti del tratto di foce del fiume Piave nel corso dell’ultimo secolo”, Corso di Ecologia II, Ca' Foscari University of Venice, Venice, Italy
- January 2015 “Cambiamenti del tratto di foce del fiume Piave nel corso dell’ultimo secolo”, Istituto di CNR Institute of Marine Sciences, Venice, Italy

Conference organization

Co-convener of the session GM9.4 River Deltas, Estuaries, and Coastal Wetlands, European Geosciences Union General Assembly (EGU 2024, April 2024, Vienna - Austria)
(<https://meetingorganizer.copernicus.org/EGU24/session/48130>)

Teaching activities

September 2025 – November 2025

Adjunct lecturer

Department of Geosciences, University of Padova, Italy

16 hours (2 ECTS) of teaching within the course Evolution of Coastal Systems, Bachelor's Degree in Earth and Climate Dynamics

Last updated: December 2025