

EUROPEAN  
CURRICULUM VITAE  
FORMAT



**PERSONAL INFORMATION**

Name Stefano Lanzoni  
Address **DEPARTMENT OF CIVIL, ENVIRONMENTAL, AND ARCHITECTURAL ENGINEERING,  
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E-mail **stefano.lanzoni@unipd.it**  
Nationality Italian  
Date of Birth 14/10/1962  
Gender Male

**WORK EXPERIENCE**

- Dates (from - to) 2011 – today  
• Name and address of the employer Department of Civil, Environmental, and Architectural Engineering, University of Padua (Italy)
  - Type of business or sector
  - Occupation or position held **Full professor – Fluid Mechanics**
- Main activities and responsibilities
- Dates (from - to) 2002 – 2011  
• Name and address of the employer Department of Hydraulic, Maritime, Environmental and Geotechnical Engineering, University of Padua (Italy)
  - Type of business or sector
  - Occupation or position held **Associate professor - Hydrodynamics**
- Main activities and responsibilities
- Dates (from - to) 1994 – 2002  
• Name and address of the employer Department of Hydraulic, Maritime, Environmental and Geotechnical Engineering, University of Padua (Italy)
  - Type of business or sector
  - Occupation or position held **Assistant professor – Hydrodynamics**
- Main activities and responsibilities
- Dates (from - to) 1995  
• Name and address of the employer Delft Hydraulics Laboratory – De Voorst (NL)
  - Type of business or sector
  - Occupation or position held **Visiting researcher**
- Main activities and responsibilities

**EDUCATION AND TRAINING**

- Dates (from - to) 1990-1993
- Name and type of organisation providing education and training University of Padua (Italy)

- Principal subjects/occupational skills covered
- Title of qualification awarded
- Dates (from - to)
- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

PhD student

### Ph.D in Hydrodynamics

1982 - 1988

Università di Padua (Italy)

Hydraulic Engineering

**M.Sc., *Magna cum laude***

## PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

OTHER LANGUAGES

ITALIAN

ENGLISH (FLUENT WRITTEN AND SPOKEN)

## SCIENTIFIC SKILLS AND COMPETENCES

*Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.*

- Research interests (5 Key words): fluvial morphodynamics, tidal morphodynamics, hydrodynamics, biofluidynamics;
- Among the top 1% most influential scientists in the field of Civil and Environmental Engineering out of more than 580,000 scientists globally (Ioannidis et al., 2020; <https://doi.org/10.1371/journal.pbio.3000918> ), and among the top 2% overall;
- Member of the Concordi Academy of Rovigo;
- > 15 invited seminars, > 100 communications at conferences & workshops, among which (selected):
  - o *Accademia Nazionale dei Lincei*, Keynote Lecture "Lagoon eco-morphodynamics and the future of coastal wetlands", March 22, 2021;
  - o *Gilbert Club*, 33rd Annual Meeting, UC Berkeley (USA). Keynote speech: "Tidal and fluvial meanders: two partially overlapping worlds?", December 17, 2016;
  - o *3rd, IAHR Europe Congress*, 2014, Porto (Portugal). Keynote Lecture: "Models of meandering rivers", April 15, 2014;
  - o *5th Symposium on River, Coastal and Estuarine Morphodynamics - RCEM*, Keynote Lecture: "Free morphodynamic behaviour, current issues on meandering", Enschede, The Netherlands, September 2007;
  - o *38th Binghamton Geomorphology Symposium*, Keynote Lecture: "Dynamics of echo-geomorphic patterns in tidal environments", Duke University, Durham, North Carolina, USA, October 2007.
- Supervisor or co-supervisor of 18 PhD students, 7 Post-docs.
- Supervisor of 50 MS students
- Teaching activity
  - o *MS courses: River Hydraulics from the Hillslope to the Estuary (Water and Geological Risk Engineering)*, 2021-present; *Advanced Fluid Mechanics (Mathematical Engineering)*, 2016-present; *Environmental Fluid Mechanics (Environmental Engineering)*, 2011-2015; *Fluvial Hydraulics (Civil Engineering)*, 2012- 2015; *Pollutant dynamics (Environmental Engineering)*, 2000-2011; *Fluid Mechanics 2 (Aerospatial Engineering)*, 2003- 2010; *Hydraulic Measurements (Civil Engineering)*, 2000-2003; *Hydraulic Infrastructures (Building Engineering)*, 1998-1999).
  - o *BS courses: Hydraulics (Environmental Engineering)*, 2016-2021); *Fluid Mechanics 1 (Aerospatial Engineering)*, 2003-2015).
  - o *PhD courses: Idrodynamic Stability; Turbulence.*
- Reviewer activity:
  - o *Journals: Science, Nature Geoscience, Proceedings of the National Academy of U.S. Sciences. Journal of Fluid Mechanics; Proceedings of Royal Society, Water Resources Research; Journal of Geophysical Research; Journal of Hydraulic Engineering; Journal of Hydraulic Research; Earth Surface Processes and Landforms; Advances in Water Resources, Catena;*
  - o *Institutions: ANVUR, PRIN ex 40%, FIRB, CIVR, National Science Foundation (USA), Technology Foundation STW (NL), Austrian Science*

Fund (A), European Research Council (EU), Agencie Nationale de la Recherche (FR).

## RELEVANT ROLES AND COMPETENCES

*Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.*

- Director, Mathematical Engineering Master Program, University of Padua (2016-present).
- Director, PhD School of *Civil and Environmental Engineering Sciences*, University of Padua, 2008-2017;
- President (elected), Italian Hydraulic Group (2016-2021).
- Director, Hydraulic Laboratory of the *Department of Hydraulic, Coastal, Environmental and Geotechnical Engineering*, University of Padua (1998-2007);
- *Coordinator, LOC 10<sup>th</sup> Symposium on River, Coastal and Estuarine Morphodynamics - RCEM, Padua, Italy, 2017;*
- Coordinator, as PI or Co-PI, of the following research projects:
  - o *Coordinator, PRIN AADEMO, "Allogenic and Autogenic controls of DELta MORphodynamics", 221 k€, MIUR, 2023-2025;*
  - o *Coordinator, project "Updating the Po River Management Plan and Integration with the Branches of the Delta", 119 k€, District Basin Authority of the Po River, 2022-2025;*
  - o *Coordinator, GAPDEMM, "GIS-based integrated platform for Debris Flow Monitoring, Modeling and Hazard Mitigation", 150 k€, Cariparo Foundation, 2012-2015;*
  - o *Coordinator, PRIN "Eco-Morphodynamics of tidal environments and climate change", 150 k€, MIUR, 2008-2011.*
  - o *Co-Coordinator, project "Updating the morphological plan of the Venice lagoon", 400 k€, Venice Water Management Authority, 2008-2010;*
  - o *Coordinator, MoDiTe, "Generation, propagation and transport models for the territory safeguarding", 320 k€, Cariverona Foundation, 2006-2008;*
  - o *Local Coordinator, COFIN ex 40% "Morphodynamic of alluvial rivers", 44 k€, MIUR 2001-2004.*
  - o *Coordinator, "Morphodynamics of tidal environments under the action of natural forcing and climate change", 50 k€, University of Padua, 2010-2012;*
  - o *Coordinator, "Analysis of the morphodynamic behaviour of meandering rivers", 20 k€, University of Padua, 2004-2006*

## PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 102
- TOTAL NUMBER OF CITATIONS: 4870
- H-INDEX: 42

10 MOST RELEVANT  
PUBLICATIONS  
In the last 10 years.

1. Zhao, K., Coco, G., Gong, Z., Darby, S. E., LANZONI, S., Xu, F., Townend, I. (2022). A Review on Bank Retreat: Mechanisms, Observations, and Modeling. *Reviews of Geophysics*, 60(2), 1–51. doi.org/10.1029/2021rg000761
2. Sgarabotto, A., D'Alpaos, A., & **Lanzoni, S.** (2021). Effects of Vegetation, Sediment Supply and Sea Level Rise on the Morphodynamic Evolution of Tidal Channels. *Water Resources Research*, 57(7). doi:10.1029/2020wr028577
3. Geng, L., D'Alpaos, A., Sgarabotto, A., Gong, Z., & **Lanzoni, S.** (2021). Intertwined eco-morphodynamic evolution of salt marshes and emerging tidal channel networks. *Water Resources Research*, 1–25. doi:10.1029/2021wr030840
4. Francalanci, S., **Lanzoni, S.**, Solari, L., & Papanicolaou, A. N. (2020). Equilibrium cross section of river channels with cohesive erodible banks. *Journal of Geophysical Research: Earth Surface*, (125), 1–20. doi:10.1029/2019JF005286
5. Lopez Dubon, S., **Lanzoni, S.** (2019). Meandering evolution and width variations: A physics-statistics-based modeling approach, *Water Resources Research*, 55(1), 76-94. doi:10.1029/2018WR023639
6. Gregoretti, C., Stancanelli, L.M., Bernard, M., Boreggio, M., Degetto, M., **Lanzoni, S.** (2019). Relevance of erosion processes when modelling in-channel gravel debris flows for efficient hazard assessment, *Journal of Hydrology*, 568, 575-591. doi:10.1016/j.jhydrol.2018.10.001
7. Bogoni, M., M. Putti, & **Lanzoni, S.** (2017), Modeling meander morphodynamics over self-formed heterogeneous floodplains, *Water Resources Research*, 53, 5137–5157, doi:10.1002/2017WR020726
8. **Lanzoni, S.**, C. Gregoretti, & L. M. Stancanelli (2017), Coarse-grained debris flow dynamics on erodible beds, *Journal of Geophysical Research: Earth Surface*, 122,592–614, doi: 10.1002/2016JF004046
9. **Lanzoni, S.**, D'Alpaos, A. (2015), On funneling of tidal channels, *Journal of Geophysical Research: Earth Surface*, 120(3), 433-452, doi:10.1002/2014JF003203
10. **Lanzoni, S.**, Luchi, R., Bolla Pittaluga, M. (2015), Modeling the morphodynamic equilibrium of an intermediate reach of the Po River (Italy), *Advances in Water Res.*, 81, 95-102, doi:10.1016/j.advwatres.2014.11.004

PATENTS

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