

## CURRICULUM VITAE

Luca Solari

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### **a. Education**

BS-MS: 5- year course in Civil Engineering with honors, University of Genoa (Italy), 1996.

Doctorate: Ph.D. in ‘Hydraulic Engineering’, University of Padua (Italy), 2000.

### **b. Appointments**

09/2000-12/2011: assistant professor, University of Florence, Italy.

12/2011- 03/2020: associate professor, University of Florence, Italy.

03/2020- present: full professor in ‘Hydraulics’ at the Department of Civil and Environmental Engineering, University of Florence, Italy.

### **c. Research topics**

Fluvial and lagoon hydro-morphodynamics; sediment transport; river engineering.

Luca Solari is author of more than 170 scientific contributions with 77 documents on Scopus (h-index 20; 1103 citations) in leading peer- reviewed international journals (e.g., Journal of Geophysical Research, Water Resources Research, Geomorphology).

### **d. Teaching at the Engineering School – University of Florence**

Undergraduate course: Fluid mechanics

Postgraduate course: Environmental Fluid Hydraulics.

PhD course: Fundamental of Fluid Mechanics

### **e. Editorial activity**

Associate Editor for the J. of Hydraulic Engineering (American Soc. Civil Eng.) since 2015 and the J. of Geophysical Research – Earth Surface (American Geophysical Union) since 2017.

Reviewer for various international leading journals (including Water Res. Res., Sedimentology, Geomorphology, Advances in Water Resources, Geophysical Research Letters)-

### **f. Conferences**

Chairman of the local organizing Committee for the 15<sup>th</sup> International Symposium on River Sedimentation. 6th-9th September, 2022 [www.isrs2022.it](http://www.isrs2022.it)

### **g. Recent Funded Projects**

- ‘Plastic Budget Methodology to model plastic pathways and storage in the Arno river-coastal basin and analysis of recovery and recycling technologies in civil and environmental works’, Fondazione CR Firenze.
- ‘Mitigation of hydraulic risk and geomorphological restoration of the Secchia River’, Interregional Agency for the Po River.

### **h. Recent relevant publications**

- Francalanci, S, Paris, E, Solari, L. (2021). On the prediction of settling velocity for plastic particles of different shapes. *Environmental Pollution*. <https://doi.org/10.1016/j.envpol.2021.118068>
- Calvani, G, Carbonari, C, Solari, L (2021). Threshold conditions for the shift between vegetated and barebed rivers. *Geophysical Research Letters*. <https://doi.org/10.1029/2021GL096393>
- Carbonari, C, Recking, A, Solari, L (2020). Morphology, Bedload, and Sorting Process Variability in Response to Lateral Confinement: Results from Physical Models of Gravel-bed Rivers. *J. Geophysical Res. – Earth Surface*. <https://doi.org/10.1029/2020JF005773>
- De Ciccio P, Paris E, Solari L, Riuz-Villanueva V (2020). Bridge pier shape influence on wood accumulation: Outcomes from flume experiments and numerical modelling. *J. Flood Risk Management*. <https://doi.org/10.1111/jfr3.12599>
- Francalanci, S, Lanzoni, S, Solari, L, AN Papanicolaou, A (2020). Equilibrium cross section of river channels with cohesive erodible banks. *J. Geophysical Res.* <https://doi.org/10.1029/2019JF005286>