

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	LUCA SOLARI	
Address	UNIVERSITA' DEGLI STUDI DI FIRENZE VIA DI SANTA MARTA 3, FIRENZE - 50139	
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SCOPUS links	https://www.scopus.com/authid/detail.uri?authorId=6701469277	
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E-mail	luca.solari@unifi.it	
Nationality	Italian	
Date of Birth	04/04/1971	
Gender	male	

WORK EXPERIENCE

- Dates (from - to) March 2020 - today
- Name and address of the employer Università degli Studi di Firenze – Department of Civil and Environmental Engineering
 - Type of business or sector
 - Occupation or position held **Full professor – Hydraulics (ICAR/01)**
- Main activities and responsibilities

- Dates (from - to) December 2011 – March 2020
- Name and address of the employer Università degli Studi di Firenze – Department of Civil and Environmental Engineering
 - Type of business or sector
 - Occupation or position held **Associate professor – Hydraulics (ICAR/01)**
- Main activities and responsibilities

- Dates (from - to) September 2000 – December 2011
- Name and address of the employer Università degli Studi di Firenze – Department of Civil and Environmental Engineering
 - Type of business or sector
 - Occupation or position held **Researcher – Hydraulics (ICAR/01)**
- Main activities and responsibilities

EDUCATION AND TRAINING

- Dates (from - to) 1998 – 2000
- Name and type of organisation providing education and training Università degli Studi di Padova
- Principal subjects/occupational skills covered Fluvial and lagoon morphodynamics.
- Title of qualification awarded **Doctorate in Hydraulic Engineering**

- Dates (from - to) 1990 - 1996

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

Università degli Studi di Genova

Experimental degree thesis on the hydro-morphodynamics of curved channels

Graduate in Civil Engineering with honours

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

ITALIAN
ENGLISH

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: river hydraulics and morphodynamics, eco-hydraulics, modelling aquatic and riparian vegetation- hydromorphology interactions, river engineering.
- Author of more than 150 scientific publication.
- Lecturer of academic courses on Fluid Mechanics, Environmental and Fluvial Hydraulics (I and II level and PhD).
- Organization and Communication at national and international congresses (more than 100 communications).
- Supervisor of more than 160 university theses (three-year, specialist and master's); tutor and co-rapporteur of 12 PhD students.

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.

- Head of the laboratory of Fluvial, Lagoon Hydraulics and bio-fluid dynamics at the University of Florence.
- Director of the International PhD program in Civil and Environmental Engineering between the University of Firenze, Pisa and Braunschweig (Germany).
- Coordinator of various research and applied projects as principal investigator. The most recent ones:
 - o 2022-2024: '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.
 - o 2020-2022: 'Mitigation of hydraulic risk and geomorphological restoration of the Secchia River', Interregional Agency for the Po River.
 - o 2021-2022: 'Mathematical modelling of vegetated flows', Fondazione CRUI
 - o 2019: 'Stability of river levees and animal burrowing: the case of the invasive crayfish *Procambarus clarkii*', Fondazione CR Firenze
- Chairman of the local organizing Committee for the upcoming 15th International Symposium on River Sedimentation.
- Member of the International Technical and Scientific Committee of Florence 2016 on the protection of Florence from flooding
- Associate Editor for the J. of Hydraulic Engineering (American Soc. Civil Eng.) since 2015 and for the J. of Geophysical Research – Earth Surface (American Geophysical Union) since 2017.
- Council member of the World Association for sediment and erosion research.

PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 77
- TOTAL NUMBER OF CITATIONS: 1155
- H-INDEX: 21

10 MOST RELEVANT AND RECENT
PUBLICATIONS
In the last 5 years.

1. Francalanci, S, Paris, E, Solari, L. (2021). On the prediction of settling velocity for plastic particles of different shapes. *Environmental Pollution*.
2. Calvani, G, Carbonari, C, Solari, L (2021). Threshold conditions for the shift between vegetated and barebed rivers. *Geophysical Research Letters*.
3. 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*.
4. De Cicco 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*.
5. Francalanci, S, Lanzoni, S, Solari, L, AN Papanicolaou, A (2020). Equilibrium cross section of river channels with cohesive erodible banks. *J. Geophysical Res.- Earth Surface*.
6. Calvani, G.; Francalanci, S.; Solari, L. (2020) 'A physical model for the uprooting of flexible vegetation on river bars'. *J. of Geophysical Res. Earth Surface*, 1-24,
7. Galloway G., Seminara G., Blöschl G., Garcia M.H., Montanari A., Solari L. (2020) 'Reducing the flood risk of art cities: the case of Florence'. *J. of Hydraulic Engineering (ASCE)*.
8. Peruzzi, C, Castaldi, M, Francalanci, S, Solari, L. (2018) 'Three-dimensional hydraulic characterisation of the Arno River in Florence'. *J Flood Risk Management*. e12490.
9. Michelazzo, G. , Paris, E. and Solari, L. (2018), On the vulnerability of river levees induced by seepage. *J Flood Risk Management*, 11: S677-S686.
10. Errico, A.; Pasquino, V.; Maxwald, M.; Chirico, G.B.; Solari, L.; Preti, F. (2018) 'The effect of flexible vegetation on flow in drainage channels: Estimation of roughness coefficients at the real scale'. *Ecological Engineering*, 120, 411-421.

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Firenze, 25.02.2022

Signature

