



Simone Pizzileo

Curriculum Vitae

Education

- 2019–2022 **Civil and Environmental Engineering**, *Università degli Studi di Modena e Reggio Emilia*, Modena (MO), *Master Degree in Water Resources Management*.
Grade: 110/110 cum laude
- 2015–2019 **Civil Engineering**, *Politecnico di Bari*, Bari (BA), *Bachelor Degree*.
Grade: 93/110
- 2006–2014 **Music Academic Diploma**, *Conservatorio Tito Schipa*, Lecce (LE), *Trumpet*.
Grade: 9/10
- 2009–2014 **High School Degree**, *Liceo Classico Quinto Ennio*, Gallipoli (LE), *Classical Studies, Project Brocca experimentation*.
Grade: 73/100

Master Thesis

- Title *Automated use of high resolution digital terrain and surface models in the numerical description of floodplain inundation*
- Supervisors Professor Stefano Orlandini
Associate Professor Giovanni Moretti
- Research item Computational Hydrology
Terrain Analysis

Vocational Experience

- 2021–present **Ph.D. in Industrial and Environmental Engineering Enzo Ferrari**, *Department of Engineering Enzo Ferrari (Unimore)*, Modena (MO)
“Surface and subsurface flow modeling based on advanced terrain analysis”
- Advance coding:
 - MATLAB
 - Fortran
 - Python
 - Advanced modeling:
 - HEC-RAS 1D/2D
 - EPANET and SWMM
 - Feflow
 - GIS

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- 2021–2022 **Master Internship Program**, *Hydrology and Fluvial Morphodynamics Research Lab (Unimore)*, Modena (MO)
- 2019–2019 **Consultant Engineer**, *Politecnico di Bari*, Bari (BA)
Re-Water Program, Interreg Greece-Italy (European Regional Development Fund)
“Sizing of UV/H₂O₂ treatment of effluent from the Gallipoli wastewater plant”.
- 2018–2019 **Assistant Engineer Stage**, *Municipality of Gallipoli*, Gallipoli (LE)
Technical Office, Section S.U.E.-Urban Planning and Public and Private Construction.

Languages

Italian	Mother tongue	<i>Native</i>
English	B2	<i>Fluent</i>

Computer skills

MS Office	Word, Excel, Outlook, Powerpoint, OneNote	Graphics	InkScape, Photoshop, Gimp, InDesign, Acrobat
Slideshows & Writing	Beamer, Prezi, L ^A T _E X, Google Slides, Powerpoint	Hardware	Network configuration, System administration, Software installation, Windows, Linux, Cloud management

Skill matrix

Skill matrix Legend:

■ ■ ■ ■ ■	basic knowledge	■ ■ ■ ■ ■	extensive project experience
■ ■ ■ ■ ■	intermediate knowledge with some project experience	■ ■ ■ ■ ■	deepened expert knowledge
		■ ■ ■ ■ ■	expert / specialist

	Level	Skill	Years	Comment
Coding:	■ ■ ■ ■ ■	Python	3	<i>Supporting waterworks modeling</i>
	■ ■ ■ ■ ■	Fortran	3	
	■ ■ ■ ■ ■	MATLAB	4	
	■ ■ ■ ■ ■	L ^A T _E X	3	
OS:	■ ■ ■ ■ ■	Windows	16	<i>from Vista until the current version</i>
	■ ■ ■ ■ ■	Linux	4	<i>Ubuntu</i>
	■ ■ ■ ■ ■	MacOS	3	
Software:	■ ■ ■ ■ ■	Hec-Ras	4	<i>from 5.7 until the current version</i>
	■ ■ ■ ■ ■	QGIS	6	<i>from 2.18 LTR until the current version</i>
	■ ■ ■ ■ ■	Global Mapper	2	
	■ ■ ■ ■ ■	Feflow	1	
	■ ■ ■ ■ ■	EPANET	3	
	■ ■ ■ ■ ■	SWMM	3	
	■ ■ ■ ■ ■	Agisoft Metashape	3	<i>Photogrammetric processing</i>

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	■■■■■	AutoCAD	8	
	■■■■■	Revit BIM	2	
	■■■■■	SAP2000	1	<i>Seismic modeling</i>
	■■■■■	Visual Studio Code	2	<i>for Fortran coding and L^AT_EX writing</i>
	■■■■■	PyCharm	2	<i>for Python coding</i>
Text Editor:	■■■■■	Vi/Vim	3	
	■■■■■	Nano	1	
	■■■■■	Gedit	1	
	■■■■■	TextPad	4	
	■■■■■	Kate	4	
Database:	■■■■■	Google Scholar	4	
	■■■■■	Web of Science	3	
	■■■■■	Research Gate	2	
	■■■■■	Scopus	4	
	■■■■■	GitHub	3	

Honors, Awards and Licenses

- 2023 **M.Sc. Degree National Award “Ennio Ferrari”**, *Università della Calabria*, Rende (CS),
Estremi Idrologici e Difesa del Suolo
- 2023 **M.Sc. Degree Award “Edili Reggio Emilia Cassa”**, *Università degli Studi di Modena e Reggio Emilia*, Modena (MO)
- 2022 **M.Sc. Degree Award “Marcello Fiorentini”**, *Università degli Studi di Modena e Reggio Emilia*, Modena (MO),
Il Ruolo dell’Ingegneria Civile e Ambientale nella Gestione del Territo Modenese
- 2022–present **Licensure to practise Civil and Environmental Engineering Practical Services**, *Università degli Studi di Modena e Reggio Emilia*, Modena (MO),
Section A, Second Session

Editorial Duties

- 2023–present **Peer Reviewer, Water Resources Research**,
American Geophysical Union

References

- [1] Simone Pedrazzi, Enrico Morini, Marika Nasti, Simone Pizzileo, and Giulio Allesina. Green hydrogen powered forklifts in industrial transport: Case study of an italian fruit and vegetable market. *Journal homepage: <http://iieta.org/journals/ijht>*, 40(1):145–150, 2022.
- [2] Simone Pedrazzi, Enrico Morini, Marika Nasti, Simone Pizzileo, Alberto Muscio, and Paolo Tartarini. Increasing the sustainability of a fruits and vegetables

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market in south of italy through combined solar power production and byproducts valorization. *Journal homepage: <http://iieta.org/journals/ti-ijes>*, 65(2–4):279–284, 2021.

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