

# Curriculum Vitae

Matteo Maino

2024

<b>Current Position</b>	Since 2022 - Associate professor of Tectonics and Structural Geology at the Department of Earth and Environmental sciences, University of Pavia, Italy
<b>Education</b>	2009 - PhD – International degrees in Earth Sciences at the Department of Earth Sciences, University of Pavia (IT) and at the Department of Geographical and Earth Sciences, University of Glasgow (UK). “POST-VARISCAN AND ALPINE EVOLUTION OF THE LIGURIAN ALPS (NW ITALY): TIMING OF TECTONIC PROCESSES THROUGH U-PB AND (U-TH)/HE DATING”
<b>Projects</b>	<ul style="list-style-type: none"><li>- 2023-2026 - Development of innovative digital methods for evaluating rock slope stability for railway infrastructures (with Italferr s.p.a.)</li><li>- 2022-2026 – Scientific manager of CARG Foglio 244-Ormea (with ISPRA - Cartography)</li><li>- 2020-2024 – Scientific manager of CARG Foglio 245-Albenga (with ISPRA - - Cartography)</li><li>- 2019-2023 – Project researcher of CARTOTIGR (SwissTopo - Cartography)</li></ul>
<b>Areas of expertise</b>	structural geology; tectonics; geological mapping; numerical modelling; microstructure; faulting; rock mechanics; geochronology; thermochronometry
<b>Current Projects</b>	<ul style="list-style-type: none"><li>- Fracture network analysis for rock slope stability (in collaboration with <b>Italferr s.p.a</b>)</li><li>- Microstructural evolution of high-temperature shear zone</li><li>- Deformation control on accessory mineral for geochronology and thermochronometry</li><li>- Deformation control on pressure and temperature deviations</li><li>- Numerical modeling of mechanically heterogeneous fault zones</li><li>- Tectonics of Alps-Appennine junction</li><li>- Tectonics of Central Alps</li></ul>
Teaching experience	- Course Leader in 4 full time courses (undergraduate to PhD Level)

	<ul style="list-style-type: none"><li>- Teacher in additional 2 full time courses (undergraduate to PhD Level)</li><li>- Teacher in 5 summer schools / workshops</li></ul>
	<p>My main scientific interest is the understanding of rock deformation processes. I focus on the observation of natural outcrops integrated with the quantification of physical and chemical parameters through the analytical approach combined with numerical modelling. Fields of</p> <p>research interest include: i) Tectonics and structural geology (i) microstructures (ii) field mapping, (iii) thermomechanical modelling, (iv) fluids/rock interactions, (v) rheology and deformation mechanisms, (vi) fracture analysis for rock slope stability.</p> <p>I have been or I am currently tutor of six PhD students, two of them in collaboration with Eni Rewind and Italferr s.p.a.</p>