

**CURRICULUM
VITAE ET
STUDIORUM**

**RICCARDO
REITANO**



PERSONAL INFORMATION

Name Riccardo Reitano
Date of birth 02/02/1989
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EDUCATION AND TRAINING

Post-Doc Researcher (RTD-A)
University “Roma Tre”, Science Department
PNRR Project: “Riqualficazione del territorio e risorse geotermiche a bassa entalpia: progetto pilota di trasformazione verde dell’area di Bagni di Tivoli-Guidonia”
From 01/01/2022
Tutor: Claudio Faccenna
Cotutor: Filippo Lippiello (Centro per la Valorizzazione del Travertino Romano)

Post-Doc position
University “Roma Tre”, Science Department
01/02/2021 – 31/12/2021
PRIN Project “Modellization of morpho-tectonic evolution of accretionary wedge: application to Arabia-Eurasia collisional margin”.
Tutor: Claudio Faccenna

PhD
University “Roma Tre”, Science Department (from 12/02/2018 to 08/02/2019 at ETH, Zurich)
11/2017 – 02/2021
“Analogue models on the interaction between tectonics and surface processes”
Tutor: Claudio Faccenna; Co-tutor: Sean Willett (ETHZ Zurich), Francesca Funicello (Roma Tre); Collaborations: Fabio Corbi (CNR, Rome), Ueda Kosuke (ETHZ Zurich), Taras Gerya (ETHZ Zurich), Paola Molin (Roma Tre).

Geomechanical tests at Geotechnical laboratory at Università La Sapienza and at “CNG Srl - Geotecnica Geofisica Geognostica”, dott. Riccardo Rampi
03/2019 – 02/2020

Master of Science degree in “Geologia del Territorio e delle Risorse”, graduated on 25/10/2017, curriculum: Geodynamics and Volcanology
10/2015 – 09/2017
LM-74 – Degree in Earth Science
University “Roma Tre”, Science Department
Final grade: 110/110 *cum laude*

- “L’utilizzo dei metodi gravimetrici e magnetometrici a supporto dell’interpretazione geologica: il caso del margine calabrese del Mar Ionio”
In collaboration with Università degli Studi “Roma Tre” (prof. Claudio Faccenna), ENI (GEBA team, dr. Gianluca Gabbriellini), INGV (dr. Fabio Speranza).
- 03/2017 **Stage at laboratory of paleomagnetism**, at University “Roma Tre” and at “Centro di Magnetismo”, Peveragno (CN).
- 09/2012 – 10/2015 **Bachelor of Science degree in Earth Science**, graduated on 30/09/2015
 L-34 – Degree in Earth Science
 University “Roma Tre”, Science Department
 Final grade: 110/110 *cum laude*
 “Modellazione sperimentale del processo di subduzione e collisione: applicazione al caso dell’India”.
 Tutor: Prof. Francesca Funicello. Co-tutor: Prof. Claudio Faccenna, Prof. Anne Replumaz (Université Joseph Fourier, Grenoble, FR)

RESEARCH ACTIVITIES

- From 04/2023 Member of Early Career Scientists (ECS) of the Division of Geomorphology (GM) at EGU.
- From 07/2022 Member of project PNRR MEET for EPOS partners.
- From 01/2022 Member of the EPOS ITA project.
- 13/10/2021 Invited to hold a webinar by GFZ Lithosphere Dynamics Group
- 15/09/2021 Invited to hold a webinar at University of Texas at Austin by Lithosphere and Dynamic Earth Group
- From 03/2021 Co-editor in the book “Simulating geological processes in the laboratory: An Introduction to analogue modelling”, by Funicello et al., proposed to “Cambridge Press”.
- From 01/2021 Co-editor of Special Publication “Analogue modelling of basin inversion” in journal “Solid Earth” (submission from 01/10/2021)
- 30/09/2020 Invited to hold a webinar by ETH Geophysical Fluid Dynamics Group
- 08/05/2020 Invited to hold a webinar by GFZ Lithosphere Dynamics Group
- 09/2017 – 05/2018 Stage at ETH Zurich in the framework of my PhD project (**numerical modelling**).
- 12/2018 – 02/2019 Stage at ETH Zurich in the framework of my PhD project (**numerical modelling**).

CONFERENCES, COURSES AND WORKSHOPS

- 3-8/09/2023 **GeoBerlin2023**

	Convener in the session “Magnitude, rates, and timing of landscape evolution: from modeling to quantifying techniques”
23-28/04/2023	EGU General Assembly 2023 (Vienna) Co-convener in the session “Exploring the feedback between tectonics, climate, and surface processes from modelling and quantifying techniques”. Convener: Mauro Bonasera
23-28/04/2023	EGU General Assembly 2023 (Vienna) Co-convener in the session “Analogue and numerical modelling of tectonic processes”. Convener: Frank Zwaan
19-21/09/2022	Congeno annual Società Geologica Italiana (Torino) Geosciences for a sustainable future
20-24/09/2021	The role of Geoscientists in the Energy Transition University of Camerino
19-30/04/2021	EGU Sharing Geoscience Online 2021 Reitano, R. , Faccenna, C., Funicello, F., Corbi, F., Sternai, P., Willett, S. D., ... & Sembroni, A. (2021). The (un) balance between tectonic and erosion in analog accretionary wedges (No. EGU21-16009). Copernicus Meetings.
4-8/05/2020	EGU Sharing Geoscience Online 2020 Reitano R. , Faccenna C., Funicello F., Corbi F., Willett D. S. (2020). Factors controlling the interaction between tectonics and surface processes in convergent orogens: insight from analogue and numerical models. In <i>EGU General Assembly Conference Abstracts</i> (p. 8014).
04/2020	Programming for Everybody (Getting Started with Python) , Coursera platform (https://www.coursera.org/).
29/01/2020	Roma chiama Roma 2020 , Rome, Italy Poster session: “Erosional response of granular material in landscape models”
7-11/01/2019	“ Natural Environment Research Council (NERC) founded course on Numerical Earth Science Modelling (NNESMO) of geological processes using MATLAB ”, at University of Durham, UK.
26/06/2019	MATLAB EXPO 2019 Italia
30/11-01/12/2018	Swiss Geoscience Meeting 2018 , Bern, Switzerland
18-22/04/2016	EGU General Assembly 2016 , Vienna, Austria Replumaz, A., Funicello, F., Reitano, R. , Faccenna, C., & Balon, M. (2016, April). Double subduction of continental lithosphere, a key to form wide plateau. In <i>EGU General Assembly Conference Abstracts</i> (Vol. 18, p. 8247).

PUBLICATIONS

Lanari, R., **Reitano, R.**, Faccenna, C., Agostinetti, N. P., & Ballato, P. Surface and crustal response to deep subduction dynamics: Insight from the Apennines, Italy. *Tectonics*, e2022TC007461.

Zwaan, F., Schreurs, G., Buiters, S., Ferrer, O., **Reitano, R.**, Rudolf, M., and Willingshofer, E. (2022). Analogue modelling of basin inversion: a review and future perspectives, *Solid Earth*

Reitano, R., Faccenna, C., Funicello, F., Corbi, F., Sternai, P., Willett, S. D., Sembroni, A., & Lanari, R. (2022). Sediment recycling and the evolution of analogue orogenic wedges. *Tectonics*, <https://doi.org/10.1029/2021TC006951>.

Lanari, R., **Reitano, R.**, Giachetta, E., Pazzaglia, F. J., Clementucci, R., Faccenna, C., & Fellin, M. G. (2022). Is the Anti-Atlas of Morocco still uplifting? *Journal of African Earth Sciences*, 104481. <https://doi.org/10.1016/j.jafrearsci.2022.104481>.

Reitano, R., Faccenna, C., Funicello, F., Corbi, F., & Willett, S. D. (2020). Erosional response of granular material in landscape models. *Earth Surface Dynamics*, 8(4), 973-993. <https://doi.org/10.5194/esurf-8-973-2020>.

Replumaz, A., Funicello, F., **Reitano, R.**, Faccenna, C., & Balon, M. (2016). Asian collisional subduction: A key process driving formation of the Tibetan Plateau. *Geology*, 44(11), 943-946. <https://doi.org/10.1130/G38276.1>.

EDUCATION ACTIVITIES

04/2023	Teaching qualification for middle-school in A028 teaching class (Math and Science)
01/2023 – 01/2026	Co-Supervisor of PhD project
02/2023 – 05/2023	Held the course “Elementi di Geologia II” during the master degree in Earth Science in University of Rome “Roma Tre”
09/2022 – 12/2022	Support in the course “GIS applicato alla Geologia” during the bachelor degree in Earth Science in University of Rome “Roma Tre”
09/2022 – 12/2022	Support in the course “Geologia II” during the bachelor degree in Earth Science in University of Rome “Roma Tre”
02/2022 – 05/2022	Held the course “Elementi di Geologia II” during the master degree in Earth Science in University of Rome “Roma Tre”
02/2022 – 05/2022	Support in the course “Geologia I” during the bachelor degree in Earth Science in University of Rome “Roma Tre”
2022/2023	Invited to hold a series of seminars in several high school. Seminar title: “Green economy: dal carbone alla fusione nucleare”.
2022/2023	PON Monteverde highschool
From 01/2021	Organizer of a series of seminar at University of Rome “Roma Tre”, in the Tectonic and Geodynamic group leads by Prof. Claudio Faccenna (invited speakers: Dr. Armel Menant, Prof. Dr. Richard Walker, Dr. Philipp Balling, Dr. Manel Prada).

12/2020	<p>Cotutor for bachelor degree thesis “Analisi dell'interazione tra processi di erosione e tettonica ed evoluzione dei paesaggi tramite la modellazione analogica” Student: Federica Sola Tutor: Prof. Francesca Funiciello; Cotutor: Riccardo Reitano.</p>
10/2019	<p>Cotutor for bachelor degree thesis “Interazione tra tettonica e processi di erosione superficiale attraverso l'analisi di modelli analogici” Student: Chiara Bazzucchi Tutor: Prof. Claudio Faccenna, Cotutor: Riccardo Reitano.</p>
From 11/2018	<p>Cotutor for laboratory activities at Laboratory of Experimental Tectonics (LET) at University “Roma Tre”, Science Department</p>
From 01/2018	<p>Collaborator in educational activity regarding high school student and undergraduate students at University of Rome “Roma Tre”</p>
From 09/2017	<p>Speaker, mentor, and collaborator in the “European Researchers’ Night” at University of Rome “Roma Tre”</p>

SCIENTIFIC INTERESTS

Topics	<p>During my bachelor’s degree I started working with analogue modelling, studying collision models, and applying my results on the collision zone India-Eurasia. For my master’s degree I used gravimetric and magnetometry analysis for better understand the deep structural asset of the Gulf of Taranto area. During my PhD I built a new experimental apparatus called TESERO, reproducing models in which tectonics and surface processes are coupled. I previously tested and selected an appropriate analogue material for this purpose. Analyzing data coming from these models allows me to develop a deep knowledge of programming languages like MATLAB and GIS like QGis and ArcGis. I also spent one year at ETH Zurich where I apply numerical modelling with the aim of analyzing the interaction between tectonics and surface processes, working with Prof. Sean D. Willett. Here I learnt more programming languages like Fortran and C++. I am currently publishing results coming from my PhD, collaborating for the realization of a book on analogue modelling, and I am a coauthor of a special publication focused on the basin inversion. I am currently collaborating with GFZ Potsdam for building a new tectonic-geomorphology apparatus concerning the formation of double wedges and including isostasy and flexuration of the lithosphere. I am also collaborating with Dr. Sascha Brune on the developing of numerical models on the interaction between tectonics and surface processes.</p>
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PERSONAL SKILLS

Native language

Italian

Other languages

		English		
Listening	Reading	Writing	Interaction	Speaking
B2	C1	B2	B2	B2
		German		
Listening	Reading	Writing	Interaction	Speaking
A1	A1	A1	A1	A1

Software, OS and programming languages

Software, OS and programming languages

MATLAB	Excellent
Python	Good
Fortran	Basic
C++	Basic
QGis	Good
ArcGis	Good
ENVI	Good
Paraview	Good
Inkscape	Excellent
GIMP	Good
CloudCompare	Good
COSI-CORR	Good
Adobe Illustrator	Good
Adobe Photoshop	Good
Adobe Premiere	Good
Office	Excellent
Web browser	Excellent
File hosting services (Dropbox, Google Drive e Microsoft OneDrive)	Excellent
Windows 10 and previous	Excellent
OSX 11.4 (Big Sur) and previous	Excellent
Linux (Ubuntu, Mint)	Good
FileZilla	Good
Private software for seismic, magnetometry and gravimetric analysis (e.g., as used in ENI s.p.a. and INGV)	Good

OTHER PERSONAL INFORMATION

Activities and interests

I am a very curious person and ready to explore different fields. In my free I collaborate with schools for scientific outreach about Geology. During the Master degree, I collaborated with ENI s.p.a. (GEBA) and INGV, learning how to use software for seismic, magnetometry and gravimetric surveys. I am very careful about environment protection, always looking for employing my knowledges toward sustainable energy (e.g., CO₂ storage, geothermal energy).

Future perspectives

I am very interested in continually renewing and enriching my knowledge as a geologist, looking at different sides of this discipline.

I authorize the processing of personal data according to the provisions of Legislative Decree no. 196/2003.

Rome, 28/04/2023

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