

CURRICULUM VITAE

Dr. Matteo Roverato

PERSONAL DETAILS

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EDUCATION

PhD in Earth Sciences focused on Physical Volcanology, obtained in December 2012 at the Universidad Nacional Autonoma de México (UNAM) with **honorable mention**. Thesis title: *Stratigraphy, triggering mechanisms, transport and emplacement of two debris avalanche deposits at Colima Volcano: comparison with Taranaki volcano (NZ)*. Supervisor: Prof. Lucia Capra. Nominated for the Alfonso Caso Medal.

Master degree in Earth Sciences focused on Physical Volcanology, obtained in April 2008 at the Università degli studi di Pisa (Italy) with the final mark 110/110 (**distinction**). Thesis title: *Tephro-chronological reconstruction of recent deposits at Fossa cone of Vulcano and Vulcanello peninsula (Aeolian islands)*. Supervisor: Prof. Mauro Rosi.

Undergraduate Degree in Geological Sciences focused on Petrology and Volcanology obtained in October 2004 at Università degli studi di Pisa (Italy) with final mark 103/110. Thesis title: *Geometry of superficial intrusive bodies in the Permian-Triassic volcano-plutonic complex of Monte Cinto (Corsica, France)*. Supervisor: Prof. Sergio Rocchi.

Technical high school degree (Mechanics) obtained in 2000 at Istituto Tecnico Industriale "Magistri Cumacini" of Como (Italy) with the final mark 88/100.

PROFESSIONAL EXPERIENCE

- **2023 – Present.** Researcher at Università di Bologna, Alma Mater Studiorum, Bologna, Italy.
- **2022.** Consultant at Geotechnical Ronchetti's studio, Como, Italy
- **2020 – 2022.** Researcher at University of Geneva, Switzerland in the Geophysics group of Crustal Deformation and Fluid Flow.
- **2017- 2019.** Associate Professor and Researcher in the school of Earth Sciences, Energy, and Environment at Yachay Tech University, Ecuador.
- **2019.** Team Lead of geological field campaigns for the course "Geological Mapping and Natural Hazard Assessment" in northern Andes, organized both for students and for professionals.

- **2017-2019.** Consultant for the creation of the Imbabura Geopark (UNESCO 2019) in collaboration with students and local indigenous communities, Ecuador.
- **2019.** Co-manager of the survey "*Volcanic hazard at Doña Juana Volcano, Nariño, Colombia*" in collaboration with local communities and the University of Andes, Colombia.
- **2017-2018.** Team Lead of the Ecuadorian "*Study Abroad Program: From de Amazon to the Galapagos*" for the geology/volcanology section directed to American (USA) undergraduate students.
- **2017.** Team Lead of the survey "*Volcanic Hazards, Natural Risk Reduction and environmental impacts*" in collaboration with the local indigenous communities in Cayambe volcano Area, norther Andes, Ecuador.
- **2013-2016.** Postdoctoral Researcher at University of São Paulo, Instituto de Geociências, Brazil. Project: Paleoproterozoic volcanism in the southern Amazonian craton.
- **2013-2016.** Team Lead of field campaigns in the Brazilian Amazon for geological mapping and ore deposits analyses. Para state, Brazil.
- **2012-2013.** Researcher at Centro de Geociencias, Juriquilla, Queretaro, Mexico. Project: Toluca Volcano stratigraphy.
- **2010-2012.** Associate Professor at UNAM (Universidad Autonoma de Mexico). Teaching activity to undergraduate students in Physical Volcanology.

TRAININGS

- **2017.** Participation in the Project "*Risk evaluation associated to mass-wasting events in Mexican active volcanoes*", UNAM, Mexico.
- **2017.** Training in "*field volcanology, natural hazards assessment and environmental impacts*", University of Caldas/University of Andes, Colombia.
- **2015.** Participation in the Project "*Colima volcano hazard assessment*", UNAM, Mexico.
- **2010.** Training in "*Elaboration of volcanic hazard maps*", Puerto Vallarta, Jalisco, Mexico.
- **2005.** Training in "*Application of isotopic methods for the study, estimation and protection of water resources*", VI° Isotopic hydrology course organized by CNR, Pisa, Italy.

MAIN GRANTS OBTAINED

- **2020-2021.** DESDE-founded postdoctoral fellowship, PI: Matteo Roverato (University of Geneva, Switzerland) ca. 80k US\$.
- **2018.** 0097/2018-1 YachayTech University-founded research project (Ecuador): "The sleeping Taita Imbabura - deciphering the spatiotemporal evolution of a potentially active stratovolcano" Co-PI: Matteo Roverato ca. 25k US\$.
- **2017.** 0013/2017-2 YachayTech University-founded research project (Ecuador): "Improving the disconnect between natural hazard knowledge and risk perceptions at Cayambe Volcano, Ecuador" Co-PI: Matteo Roverato ca. 18k US\$.
- **2013-2016.** 402564/2012-0 (CAPES/CNPq/FAPs, Brazil) "Paleoproterozoic volcano-sedimentary evolution of the Uatumã Supergroup and its metallogenetic implications". PI: Matteo Roverato ca. 120k US\$.
- **2012-2013.** UNAM-founded Postdoctoral fellowship, PI Matteo Roverato (CGEO-UNAM, Mexico) ca. 6k US\$.
- **2009-2012.** CONACYT-founded Ph.D. fellowship, PI: Matteo Roverato (CGEO-UNAM, Mexico) ca. 35k US\$.

VISITING RESEARCHES and COLLABORATIONS

Invited collaborations and field campaigns with International Universities, **2011 - present:**

- Italy (UniBo; UniBz; UniPi; UNiTo)
- Switzerland (University of Geneva)
- Chile (University of Santiago)
- Mexico (CGEO-UNAM)
- New Zealand (Massey University)
- Colombia (University of Caldas; UniAndes)
- UK (University of Plymouth)
- Brazil (USP; UFPE)

INVITED LECTURES

- 2021** Volcanic Debris Avalanches Deposits. Google meeting, University of Florence, Italy
- 2021** Volcanic Debris Avalanche: From Collapse to Hazard. Webinars IGAG, CNR, Milano, Italy
- 2020** "Avalanchas de escombros volcánicas: 4 décadas desde el evento del Mount St. Helens". Zoom meeting, Universidad de Santiago del Chile, Chile.
- 2019** "Evidences of volcanic sector collapses in Ecuador and the controversial case of the Cubilche debris avalanche deposit". Bologna University, Italy.
- 2019** "How to reconstruct a volcanic paleo-environment through the study of ancient volcanic deposits (Amazon craton, Brazil)". Bologna University, Italy.
- 2018** "Volcanic landslides in Ecuador and the controversial case of the Cubilche debris avalanche deposit in northern Andes". Turin University, Italy.
- 2017** "Avalanchas de Escombros". Caldas University, Manizales, Colombia.
- 2016** "Lithofacies analysis of Paleoproterozoic intermediate-felsic volcano-sedimentary rocks (Amazonian craton): insight into paleogeographic settings". Turin University, Italy.
- 2014** "Volcaniclastic giant mass-flows: insights into transport mechanisms and hazards related". 47th Brazilian meeting of geosciences, Salvador, Bahia, Brazil.
- 2013** "Evidences of a big proterozoic andesitic/rhyolitic volcanic activity in the Tapájos Gold Province, Amazon craton, Brazil". UNAM, Centro de Geociencias, Juriquilla, Queretaro, Mexico.
- 2013** "Volcaniclastic giant mass-flows: an overview on the Trans-Mexican Volcanic Belt". Universidade de São Paulo, Brazil.
- 2011** "Pungarehu Debris Avalanche Deposit: the major collapse product of Taranaki Volcano, New Zealand." Centro de Geociencias (CGEO), Queretaro, Mexico.
- 2011** "Stratigraphic reconstruction of two debris avalanche deposits at Colima volcano (Mexico): insights into pre-failure conditions and climate influence". Massey University Palmerston North, New Zealand.
- 2010** "Debris Avalanche deposits, stratigraphic reconstruction in the southeastern sector of Colima Volcano (Mexico)". Università degli studi di Pisa (UNIFI), Italy.

ACADEMIC SERVICE

- **2021-2022** Co-supervisioning of the Ph.D. student Symeon Makris, University of Plymouth, UK on Volcanic Debris Avalanches, Canary Islands
- **2021** External examiner for the thesis "*Inestabilidad volcánica y formación de flancos de colapso en la Zona Volcánica Norte de Suramérica*". Student: Dumar Alexander Palacios Benavides, EAFIT, Medellin, Colombia.
- **2021** External examiner for a master thesis of the student Célia Barat, University of Geneva, Switzerland on ERT studies of Vulcano and Lipari, Aeolian Islands.

- **2020** External examiner for a dissertation/thesis of the student Santiago Caro Alba, UniAndes, Bogotá, Colombia. Graduation thesis title: Estudio del mecanismo que controla la formación de bloques con estructura en rompecabezas transportados por avalanchas de escombros volcanogénicas.
- **2019-2020** Supervisioning and mentoring of the student Patricia Rengél, YachayTech University, Ecuador. Graduation thesis title: Characterization of Pyroclastic Density Current Deposits at Cuicocha Caldera Volcano, northern Ecuadorian Andes.
- **2018** Nomination as external examiner for a dissertation/thesis, University of Pretoria, South Africa; Candidate: B. Narotam; Supervisor: Dr. N. Lenhardt; Graduation thesis title: Physical volcanology, sedimentology and geochronology of the Schrikkloof Formation (Rooiberg Group) along the boundary with the Waterberg Group.
- **2018** Co-supervisor of the students Mateo Correa Grand and Johnatan Stiven Valencia, University of Caldas, Manizales, Colombia. Graduation thesis title: Características texturales como indicadores del origen y de los mecanismos de transporte de tres depósitos volcániclos: casos de estudio para el Complejo Volcánico Nevado del Ruiz y el Volcan Cerro Bravo.
- **June-August 2018** Mentor of the student Patricia Rengél for the first internship promoted by JVLA (Young Latin-American Volcanologists) and sponsored by ALVO (Latin-America Association of Volcanology) and IAVCEI
- **2015** PhD mentoring and committee member, USP, GSA, São Paulo (Brazil) Candidate: Claudia de Couto Tokashiki Thesis title: Mineralizações low-e intermediate sulfidation de ouro e metais de base em domos de riolito paleoproterózoico na porção sul da Provincia Mineral do Tapajós
- **2015** Bachelor mentoring and committee member Candidate: Cristiane Labre Roberto Caraviello Thesis title: Rochas Vulcânicas da Bacia de Campo Alegre, SC, Brasil: Idades LA-ICP-MS, Caráter Físico e Ambiente dos Depósitos Vulcânicos”

Reviewing for Journals:

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| ○ Journal of African Earth Sciences | ○ Journal of International Earth Sciences |
| ○ Journal of Volcanology and Geoth. Res. | ○ Active Volcanoes of the World book series |
| ○ Revista Geológica Mexicana | ○ Earth Surface Dynamics (EGU) |
| ○ Journal of South America Earth Science | ○ Frontiers in Earth Science |
| ○ Precambrian Research | ○ Bulletin of Volcanology |

Editing:

- **Books:** Main Editor (co-editors: Anja Dufresne, Jon Procter) for the book *“Volcanic Debris Avalanches - From Collapse to Hazard”*, published in *“Advances in Volcanology book series”* By Springer Nature (2021). ISBN 978-3-030-57410-9
- **Special Issues:** Guest co-editor (other guest editors: Federico Di Traglia (main), Alessandro Bonforte, Felix Gross) for the special Issue: *“Flank dynamics, sector collapses, lahars, and rockfalls: analysis, monitoring, and modelling of small to large scale volcanic slope instability”*, which will be hosted (2020) in the *“International Journal of Earth Sciences”*.

PEER REVIEWED PUBLICATIONS and CONFERENCES

More than 60 International Publications in Peer Reviewed Journals and International Scientific Meetings (2 invited lectures)

CONVENER in CONFERENCES

- 2024 – CoV12 (IAVCEI), Antigua, Guatemala
- 2021 (2022)- CoV 11 (IAVCEI), Crete, Greece.
- 2018- CoV 10 (IAVCEI), Naples, Italy.

MEMBERSHIP

- EGU
- IAVCEI

CERTIFICATE OF TEACHING ABILITY

- Italian National Scientific Accreditation for university teaching (ASN) – OBTAINED 2020
- Spanish National Agency for Quality Assessment and Accreditation (ANECA) – OBTAINED 2021

LANGUAGES SPOKEN

Italian: Mother tongue

English: Fluent

Spanish: Fluent

Portuguese: Fluent

French: Intermediate