**Academic curriculum vitae**

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**ANDREA LUCA RIZZO**

Associate Professor

Department of Earth and Environmental Sciences (DISAT)

University of Milano-Bicocca

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**EDUCATION AND TRAINING**

2024-2035 Scientific qualification (ASN) for Full Professor at Italian Universities.

2021 Course for Commissioner of public competitions.

2021 Course on Public Contract Law for the qualification of RUP (Responsabile Unico di Procedimento) in the procurement and tender procedures of the Italian Public Administration

2020 Europaeus PhD (XXXII cycle) cum laude at the IUSS of University of Ferrara (Italy).

2017 Participation in the international school on "Melting and fluid/melt-rock reactions in the mantle (MEREMA)" at the University of Pavia (Italy).

2015 First Aid training course and Firefighting training course.

2014-2024 Scientific qualification (ASN) for Associate Professor at Italian Universities.

2014 Participant in an Oceanographic cruise in the South Aegean Sea (Kolumbo submarine volcano) on board the R/V Aegaeo of the Hellenic Centre for Marine Research (Greece).

2004-2008 Advanced course on vacuum techniques at Varian s.p.s. (Torino, Italy). Basic course on vacuum-cryogenic techniques at the Physics Department of the University of Messina (Italy)

2003 Stage at the Scottish Universities Environment Research Centre (SUERC) on methods of samples preparation and mass spectrometric analysis of noble gases in fluid inclusions.

2003 Stage at GV-Instruments (UK) on analytical techniques of noble gas mass spectrometry.

2002 Post-graduate school of Geochemistry in "Geochemical monitoring of volcanic and seismic activity", organized by the Italian So.Ge.I.

2000 Qualified to teach mathematics and science at lower secondary schools.

1998 Qualification to practice as a geologist.

1997 Degree in Earth Sciences from the University of Palermo (Italy) with a thesis titled “Geochemical investigations on some gas emissions in Eastern Sicily: implications for the deep feeding system of Mount Etna”. Grade 110/110 cum laude.

1996-2000 Participant in three Oceanographic cruises in the Southern Tyrrhenian Sea aboard Urania vessel held by the Italian CNR (Consiglio Nazionale delle Ricerche).

**POSITIONS HELD TO DATE**

2023-Present Associate Professor at the University of Milano Bicocca, Department of Earth and Environmental Sciences (DISAT).

2010-Present Permanent Researcher at the Istituto Nazionale di Geofisica e Vulcanologia (INGV), Sezione di Palermo

2003-2010 Technologist at the INGV, Sezione di Palermo

2001-2003 Research Grant at the INGV, Sezione di Palermo

2000-2001 Research Grant at the Istituto Geochimica dei Fluidi-CNR, Palermo (Italy)

AWARDS AND HONORS

NONE

COMMISSIONS OF TRUST

ACADEMIC

2024-2025 Member of the selection committee for the renewal of a fixed-term research position at the University of Ferrara

2024-2025 Member of the PhD Competition Commission at the University of Milano-Bicocca

2024 Chair of the selection committee for the recruitment of a permanent technician at the University of Milano-Bicocca.

2024 Member of the PhD Competition Commission at the University of Ferrara

2023 Member of the PhD Competition Commission at the Université de Bretagne Occiedentale (France)

2022 Member of the PhD Competition Commission at the Universidad Complutense de Madrid.

SCIENTIFIC

2024 Member of the selection committee for the recruitment of two postdoc at the INGV, Sezione di Milano.

2023 Chair of the selection committee for the recruitment of a postdoc at the INGV, Sezione di Milano.

2022 Chair of the selection committee for the recruitment of a postdoc at the INGV, Sezione di Palermo.

2020-2025 Coordinator of scientific collaboration (MoU) between INGV and UCN (Chile).

2020 Chair of the selection committee for the recruitment of a postdoc at the INGV, Sezione di Palermo.

2018-2023 Coordinator of scientific collaboration (MoU) between INGV and CICESE (Mexico).

2018 Chair of the selection committee for the recruitment of a temporary technician at the INGV, Sezione di Palermo.

2016 Chair of the selection committee for 2 grants at the INGV, Sezione di Palermo.

2015-2016 Responsible for scientific dissemination at the INGV tourist center on Stromboli Island (Italy).

2014 Chair of the selection committee for a grant at the INGV, Sezione di Palermo.

2014 Member of the selection committee for the recruitment of a postdoc at the INGV, Sezione di Palermo.

2013-2015 Leading scientist for a field application test at Mount Etna volcano (Italy) of a new prototype of laser-based IRIS (Delta Ray™) produced by Thermo Fisher Scientific for real-time measurements of the concentration and isotope composition of CO2 in air (results published in Rizzo et al. 2014 GRL, Rizzo et al., 2015 CG).

2011 Member of the selection committee for the recruitment of a temporary technician at the INGV, Sezione di Palermo.

2008-2013 Coordinator for the geochemical surveillance activities of Etna volcano, DPC-INGV

2004 Member of the selection committee for the recruitment of a temporary technician at the INGV, Sezione di Palermo.

ADMINISTRATIVE

2024-2025 Responsible for the administrative procurement procedure for the establishment of a stable isotope geochemistry laboratory at the University of Milano-Bicocca (cost k€ 630).

2022 Chair of the tender committee for the purchase of an oceanographic observatory for INGV, Sezione di Palermo.

2020 Chair of the tender committee for the purchase of oceanographic equipment for INGV, Sezione di Palermo.

2019 Chair of the tender committee for the supply of a benchtop mass spectrometer for monitoring gas and vapor evolution for INGV, Sezione di Palermo.

2012-2013 Responsible for the purchase procedure of 3 mass spectrometers and related equipment for the noble gas isotopic laboratory at the INGV, Sezione di Palermo (cost M€ 1.2).

2004-2005 Responsible for the purchase procedure of 1 mass spectrometers and related equipment for the noble gas isotopic laboratory at the INGV, Sezione di Palermo (cost k€ 370).

MANAGEMENT OF SCIENTIFIC LABORATORIES

2024-Present Manager of the laboratory of Geochronology (Ar-Ar dating) at the Department of Earth and Environmental Sciences (DISAT) of the University of Milano-Bicocca (Italy

2000-2022 Manager of the noble gas isotopic laboratory at INGV, Sezione di Palermo. Responsible for three technicians (one of whom is now employed at the noble gases isotopic laboratory of IAEA in Wien), including their selection and skills development. During my tenure as manager:

* I have expanded the noble gas laboratory from 1 to 6 mass spectrometers, 1 quadrupole, 5 purification lines, 1 furnace, 2 crushing systems, and 2 lines for extracting noble gases from water. This setup allows for the simultaneous analysis of He, Ne, and Ar in waters, gases, and minerals-rocks from the same gas aliquot. Before leaving the responsibility of the lab, I participated in preparing a PNRR project aimed at replacing 3 of the oldest mass spectrometers.
* I have ensured the technical maintenance of all the equipment in the laboratory.
* I designed and developed a method for extracting and analyzing noble gases from water (Inguaggiato and Rizzo, 2004).
* I designed and developed a furnace for extracting noble gases dissolved in silicate rocks during solubility experiments (Iacono-Marziano et al., 2010).
* I developed a method for extracting and analyzing noble gases (Nuccio et al., 2008 EPSL, Tantillo et al., 2009 Technical Report) and CO2 (Gennaro et al., 2012 Technical Report, Gennaro et al., 2017 JVGR) from fluid inclusions in minerals and rocks.
* I designed a gas-tight sampler for collecting fluids in submarine conditions (up to 500 meters below sea level) using an ROV (Rizzo et al., 2016, 2019).
* I developed a protocol for the preparation and analysis of solid samples for studying noble gases and CO2 isotopes in fluid inclusions of minerals.
* I developed an internal database for storing data obtained from isotopic analysis in the INGV laboratory.
* I integrated the noble gases laboratory into the European Transnational Access network (Eurovolc) for foreign scientists interested in analyzing and studying noble gas isotopes.
* I presently provide support to newly established noble gas isotope laboratories (Involcan, Canary Islands; CICESE, Mexico; Beijing, China).

2008-2010 Participation in the planning and installation of the LA-ICP-MS (Laser Ablation-Inductively Coupled Plasma-Mass Spectrometry) laboratory at INGV, Sezione di Palermo.

PREVIOUS AND CURRENT COOPERATION PARTNERS

CURRENT (SCIENTIFIC) (*in italics the names of the collaborators*)

* *Aguilera F.,* Departamento de Ciencias Geológicas, Universidad Católica del Norte, Avenida Angamos 0610, Antofagasta, Chile
* *Agusto M., Lamberti M.C.,* Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Buenos Aires, Argentina. Instituto de Estudios Andinos “Don Pablo Groeber” (IDEAN), CONICET—Universidad de Buenos Aires, Buenos Aires, Argentina.
* *Aiuppa A., Lo Forte F.M., Lages J., Rotolo S.G., Sandoval-Velasquez A.,* Dipartimento DiSTeM, Universitá degli Studi di Palermo, 90123 Palermo (Ialy).
* *Arienzo I., Caliro S., Chiodini G., Di Vito M.A.,* Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano, Napoli, Italy.
* *Battani A., Bernard A.,* Laboratoire des Fluides Complexes et leurs Réservoirs (LFCR), Université de Pau et des Pays del’Adour (UPPA), Pau, France.
* *Bonnet S.,* Aix Marseille University, Université de Toulon, CNRS, IRD, MIO Marseille, France.
* *Boudoire G., Schiavi F.,* Université Clermont Auvergne, CNRS, IRD, OPGC, Laboratoire Magmas et Volcans, F-63000 Clermont-Ferrand, France.
* *Cardellini C.,* Università degli Studi di Perugia, Dipartimento di Fisica e Geologia, Perugia, Italy.
* *Cathalot C.,* Geo-Ocean. Unité Mixte de Recherche 6538 CNRS - Ifremer - UBO – UBS. CS10070. Zi de la Pointe du diable. F-29280 Plouzane, France.
* *Chavagnac V.,* GET, UMR 5563 CNRS / UR 234 IRD / UM 97 UPS / CNES, Observatoire Midi-Pyrénées 14, avenue Édouard Belin F-31400 Toulouse, France.
* *Coltorti M., Faccini B.,* Dipartimento di Fisica e Scienze della Terra, Università di Ferrara, Ferrara, Italy.
* *Corsaro R.A., Madonia P.,* Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Etneo, Catania, Italy.
* *Costa dos Santos A.,* Faculdade de Geologia, Universidade do Estado do Rio de Janeiro, Rio de Janeiro 20550-900, RJ, Brazil.
* *Di Muro A.,* Laboratoire de Géologie de Lyon: Terre, Planètes et Environnement, Université Claude Bernard Lyon 1, 69622, Villeurbanne, France.
* *Frezzotti M.L.,* Dipartimento di Scienze dell’Ambiente e della Terra, Università degli Studi di Milano-Bicocca, Piazza della Scienza 4, 20126 Milano, Italy.
* *Guieu C.,* Laboratoire d’Océanographie de Villefranche (LOV), Institut de la Mer de Villefranche, CNRS, Sorbonne Université, 06230 Villefranche-sur-Mer, France.
* *Heimbürger-Boavida L.E.,* Mediterranean Institute of Oceanography, Marseille, France.
* *Jackson M.G.,* Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington D.C., 20015, USA.
* *Lee H., Kim D.,* School of Earth and Environmental Sciences, Seoul National University, Seoul 08826, Republic of Korea.
* *Li J.,* Beijing Research Institute of Uranium Geology (BRIUG), China.
* *Liuzzo M., D’Alessandro W., Inguaggiato S., Ricci A., Romano P.,* Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Palermo, Palermo, Italy.
* *Massa M., Ferrari E., Lovati S., Ventura Bordenca C.,* Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Milano, Via Alfonso Corti 12, 20133 Milano, Italy.
* *Nomikou P.,* Department of Geology and Geoenvironment, National and Kapodistrian University of Athens, Zografou Campus, Athens, Greece.
* *Ntaflos T., Casetta F.,* Department of Lithospheric Research, University of Vienna, Vienna, Austria.
* *Padrón E., Pérez N.M., D’Auria L.,* Instituto Volcanológico de Canarias (INVOLCAN), Tenerife, Canary Islands, Spain. Instituto Tecnológico y de Energías Renovables (ITER), Tenerife, Canary Islands, Spain.
* *Polymenakou P.,* Hellenic Centre for Marine Research, Institute of Marine Biology, Biotechnology and Aquaculture, Heraklion Crete, Greece.
* *Portnyagin M.,* GEOMAR Helmholtz Centre for Ocean Research Kiel,Wischhofstrasse 1-3, 24148 Kiel, Germany.
* *Renzulli A.,* Dipartimento di Scienze Pure e Applicate, Università degli Studi di Urbino “Carlo Bo”, 61029 Urbino, Italy.
* *Robidoux P.,* Department of Geology, Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, 8370450 Santiago, Chile.
* *Sciarra A., Barberio D.,* Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Roma1, Roma, Italy.
* *Stix J., D’Arcy F.,* Department of Earth & Planetary Sciences, McGill University, Montreal, QC, Canada.
* *Tamburello G., Rouwet D.,* Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Bologna, Bologna, Italy.
* *Taran Y.,* Institute of Volcanology and Seismology FEB RAS, Petropavlovsk-Kamchatsky, Russia.
* *Tassi F., Vaselli O., Capecchiacci F.,* Department of Earth Sciences, University of Florence, Via G. La Pira, 4, 50121 Firenze, Italy
* *Viveiros F., Zanon V.,* Instituto de Investigaçao em Vulcanologia e Avaliaҫao de Riscos, Universidade dos Aҫores, Rua Mae de Deus, Ponta Delgada PT-9500-321, Portugal
* *Woodland A., Uenver-Thiele*., Institute of Geosciences, Goethe University, 60438 Frankfurt, Germany.

CURRENT (INDUSTRY)

* *Hamilton D.,* Sr. Manager Business Development & Marketing, Inorganic Mass Spectrometry, Applied Analytical Technologies, Thermo Fisher Scientific, Bremen, Germany.
* *Nicolosi D., Valeri A.,* High Vacuum Business Manager, SAES Getters S.p.A., Lainate (MI), Italy.

PREVIOUS

* *Barnes J.D.,* Department of Geological Sciences, University of Texas, Austin, TX, USA.
* *Barry P.H.,* Marine Chemistry and Geochemistry Department, Woods Hole Oceanographic Institution, Woods Hole, MA, United States.
* *Batista Cruz R.Y., Kretzschmar T.G., Inguaggiato C.,* Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE), Ensenada, Mexico.
* *Capasso G., Caracausi A., Correale A., Diliberto, I.S., Federico C., Grassa F., Liotta M., Longo M., Misseri M., Paonita A., Tantillo M.,* Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Palermo, Palermo (Italy).
* *Chiaradia M.,* Department of Earth Sciences, University of Geneva, Rue des Maraîchers 13, 1205 Geneva, Switzerland.
* *de Moor M. J.,* Observatorio Vulcanologico y Sismologico de Costa Rica (OVSICORI), Apdo. 2368-3000, Universidad Nacional, Heredia, Costa Rica.
* *Fiebig J.,* Institute of Geosciences, Goethe University, 60438 Frankfurt, Germany.
* *Fischer T.P.,* University of New Mexico, Albuquerque, NM, USA.
* *Francalanci L.,* Department of Earth Sciences, University of Florence, Via G. La Pira, 4, 50121 Firenze, Italy.
* *Iacono-Marziano G., Pichavant M.,* Institut des Sciences de la Terre d'Orléans, Université d'Orléans/CNRS/Université François Rabelais-Tours (UMR 6113), 1A rue de la Férollerie, 45072 Orléans Cedex, France.
* *Levresse G., Montoya-Lopera, P.,* Centro de Geociencias, UNAM Campus Juriquilla Blvd. Juriquilla 3001, Querétaro 76230, Mexico.
* *Lopez T.,* Geophysical Institute, University of Alaska Fairbanks, Fairbanks, AK, USA. Alaska Volcano Observatory, UAF Geophysical Institute, Fairbanks, AK, USA.
* *Mutlu H.,* Geological Engineering Department, Ankara University, Ankara, Turkey.
* *Plank T., Malinverno A.,* Lamont Doherty Earth Observatory, Columbia University, Palisades, NY, USA.
* *Smeraglia L., Curzi M.,* Dipartimento di Scienze della Terra, Sapienza Università di Roma, P.le Aldo Moro 5, 00185, Roma, Italy
* *Uysal I.T.,* The Commonwealth Scientific and Industrial Research Organization Energy, Perth, Western Australia, Australia.
* *Yuce G.,* Geological Engineering Department, Hacettepe University, Ankara, Turkey.
* *Zheng J., Lu J.,* State Key Laboratory of Geological Processes and Mineral Resources, School of Earth Sciences, China University of Geosciences, Wuhan 430074, China.

**PROJECTS AS PRINCIPAL INVESTIGATOR**

2023-2025 Research Unit leader (INGV RU, ~72 k€) for the Italian PRIN2022HA8XCS project

2023-2026 WP leader for the INGV project “GEMME” within the internal call of “Pianeta Dinamico” funded by Italian Minister (MIUR; >100 k€).

2020-2023 WP leader in the SANTORY project funded by the Hellenic HFRI on Kolumbo (>100 k€)

2020-2022 Scientific Referent and RU Responsible for the INGV project “Pianeta Dinamico” funded by MIUR (>200 k€), focusing on geochemical activities in Campi Flegrei, Vesuvio and Vulcano (Italy)

2019-2022 INGV-Palermo RU leader (~53 k€) for the Italian PRIN2017LMNLAW project

2019-2021 Responsible for an EUROVOLC call for 10-days transnational access at CIVISE (Azores)

2008-2010 Responsible for RU in the project DPC\_INGV, V2 – PAROXYSM, Stromboli (~35 k€)

OTHER PROJECTS AS A PARTICIPANT

2021-2025 Participant in the LithoMar project (WP3), a new Task Force established under the auspices of the International Lithosphere Program (ILP - https://www.scl-ilp.org/).

2021-2023 Participant in the Interreg project on Comores (France) in cooperation with OVPF (La Réunion)

2020-2022 Participant in two INGV Departmental projects focused on Campi Flegrei and Stromboli

2020-2022 Participant in the Marine Hazard project (Italian PON)

2019-2022 Participant in MAGAT (FCT/2019, Portugal) on Etna and Macaronesia volcanism

2019-2022 Participant in two Fondecyt projects (Chile) focused on monitoring North-Chilean volcanoes

2019-2022 Participant in the “He Waka Eke Noa” Marsden Fund project (VUW1807), New Zealand

2019-2020 Participant in the RAFAEL project (PON) lead by the Italian ENEA

2018 Participant in the INSU 2018-programme TelluS-ALEAS at La Réunion

2017-2018 Participant and Responsible (in 2018 only) in the ENVRIplus EU project at La Réunion

2014-2017 Participant in the MARES project (PTDC/GEO-FIQ/1088/2014) on Macaronesia volcanism

2012-2016 Participant in the Marsite EU project on Seismic Hazard Assessment in the Marmara Supersite

2013-2014 Participant in the European research project SeaBioTech, Kolumbo submarine volcano

2013-2016 Participant in the European research project MedSUV-Etna

2013-2015 and 2004-2007 Participant in research projects DPC\_INGV on Etna, Campi Flegrei, Vulcano

**LIST OF MOST IMPORTANT SCIENTIFIC TALKS**

2024 Keynote on “The journey of light noble gases in the Earth's interior” at the “Workshop Nazionale sulle inclusioni fluide e vetrose” in Palermo, Italy.

2024 Keynote on “Noble gas and CO2 composition in central-eastern European subcontinental lithospheric mantle (SCLM)” at the workshop on French Massif Central, Université Clermont Auvergne

2023 Keynote on “Noble gases and carbon: a volatile journey from the Earth's mantle to the atmosphere” at the Beijing Research Institute of Uranium Geology, China.

2023 Keynote on “Noble gases isotopes in fluid inclusions: methods and applications to Geosciences” at the “Workshop Nazionale sulle inclusioni fluide e vetrose” in Palermo, Italy.

2023 Invited speaker at JpGU Meeting 2023, session S-GC37 Volatiles in the Earth

2022 Keynote on “Geochemistry of noble gases and CO2 in fluid inclusions from the lithospheric mantle beneath Eifel and Siebengebirge volcanic provinces (Germany)” at the Mineralogical and Petrological Seminar of the University of Potsdam.

2021 Invited speaker of “Geochemistry of volatiles venting from Kolumbo submarine volcano” at the Tagoro Volcano International Online Scientific Conference (Canary, Spain).

2020 Keynote on “Noble gases and CO2 as geochemical tracers of research and volcano monitoring” at the Involcan Institute (Canary, Spain).

2019 Keynote on “Geochemistry of noble gas and CO2 in European lithospheric mantle” at the University of Manchester.

2017 Keynote on “Helium and carbon as tools for volcanological monitoring” at the OVPF, La Reunion (France).

2017 Keynote on “Noble gases as geochemical tool for defining the origin of fluids and for volcano monitoring” at the CICESE, Ensenada (Mexico).

CONVENER AND OTHER INVITED ACTIVITIES AT CONFERENCES

2025 Convener at EGU conference, Wien

2023 Convener at IAVCEI-Rotorua (NZ)

2022 Invited speaker at SIMP Meeting, Turin (Italy)

2022 Convener at SIMP Meeting, Turin (Italy)

2022 Invited speaker at EMAW Meeting, Toulouse (France)

2021 Convener at EGU and Goldschmidt virtual conferences.

2021 Part of the scientific committee of CCVG (2020-2021) virtual workshop.

2020 Convener at EGU virtual conference.

2019 Part of the scientific committee of ICGG15 conference, Milazzo (Italy).

2019 Convener at ICGG15 conference, Milazzo (Italy).

2018 Convener at COV10 conference, Napoli.

2018 Invited speaker on “Noble Gases and CO2 from lithospheric mantle xenoliths” at SGI-SIMP conference, Catania.

2017 Invited speaker of “Geochemical tracers as tools for volcanological research and monitoring” at the 3rd Early Career Scientist DCO workshop.

2016 Invited speaker of “Volcanic gas monitoring” at the Thermo Fischer of Tokyo (Japan).

2015 Invited speaker at the International Workshop on: Advanced Monitoring of Active Volcanoes, Napoli.

2015 Press release on the “Extend the Boundaries of Isotope Analysis for Geosciences Research” at the AGU 2015 conference (San Francisco, USA).

TEACHING AND MENTORING

2024-2025 Course of Geochronology and Geochemistry of Solid Earth (6 ECTS) at the University of Milano-Bicocca and Chair of the examination committees.

2024 Course of Geochemistry (8 ECTS) at the University of Milano-Bicocca and Chair of the examination committees.

2023-2024 Course of Geochronology and Archeometry (6 ECTS) at the University of Milano-Bicocca and Chair of the examination committees.

2023-Present Mentor of Francesco Maria Lo Forte, who is now a postdoc at the University of Palermo (Italy).

2023-Present Mentor of Elisa Ferrari, who is now a postdoc at the INGV, Sezione di Milano.

2023 Invited Lecture at the CIGEFLU2023 (Curso Internacional de Geoquímica de Fluidos Volcánicos y Geotermales, February 2023) in Chile.

2023 Course of Geochemistry (8 ECTS) at the University of Milano-Bicocca and Chair of the examination committees.

2022-Present Mentor of Andrés Sandoval-Velasquez, who is now a Researcher at the University of Palermo (Italy).

2020-Present Mentor of Philippe Robidoux, who is now a Researcher at the Universidad de Chile.

2020-2022 Invited Lectures (4h) of “Isotope Geochemistry applied to volcanic and mantle studies” at the master course of Volcanology at the University of Ferrara.

2017-2018 Member in 4 exams commissions (2 as President) for the master course of Volcano Surveillance (3 of 6 ECTS, 42h) at the University of Palermo.

2017-2018 Course of Geochemical monitoring within the master course of Volcano Surveillance (3 of 6 ECTS, 42h) at the University of Palermo.

2015-2022 Invited Lectures (8h) of “Isotope Geochemistry applied to volcano monitoring” at the master course of Volcano Surveillance at the University of Palermo.

2013-2015 Lectures of Fluids Geochemistry (6h) within the Italian VULCAMED and FSE (Fondo Sociale Europeo) projects reserved to Sicily.

SUPERVISION EXPERIENCE (Master, PhD, postdoc)

2024-2027 Tutor of a PhD from Pakistan at the University of Milano-Bicocca (starting 1st November)

2024-2025 Tutor of a postdoc at the INGV, Sezione di Milano, funded by PRIN2022HA8XCS project.

2024-2025 Tutor of 3 BSc at the University of Milano-Bicocca.

2022-2023 Tutor of a postdoc at the INGV, Sezione di Milano, funded by MINERBIO project.

2021-2022 Tutor of a postdoc at the INGV, Sezione di Palermo, funded by PRIN2017LMNLAW project.

2010-2024 Co-tutor of n. 6 PhD for the University of Palermo, n.1 for the University of Milano-Bicocca and n.1 for the University of Urbino (Italy), n.1 for CNRS (France), and n.1 for the University of Buenos Aires (Argentina).

2010-2023 Co-tutor of BSc and MSc (11), scholarship (3), post-doc (3) for the Universities of Palermo and Ferrara, and the INGV, Sezione di Palermo.

2003-2020 Tutor of 26 internships for the Universities of Palermo, Ferrara (Italy), CNRS (France), and University of Salzburg (Austria).

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##### EDITORIAL ACTIVITY

2022-Present Editor in Chief of Applied Sciences, Section of Earth Sciences (MDPI, ISSN 2076-3417; IF 2.7) and part of the Editorial Board of AppliedChem.

2022-Present Associate Editor of Frontiers in Chemistry and Frontiers in Earth Sciences (Section of Geochemistry).

2020-2023 Scientific Editor of e-volcano, a new e-learning platform launched in 2021 by the IAVCEI.

2019-2024 Editor of two Special Issues on “Volcano Monitoring: From the Magma Reservoir to Eruptive Processes” and on "Feature Review Papers in "Earth Sciences and Geography" Section" organized with MDPI.

Present Member of Italian (So.Ge.I., SIMP, AIV), International (AGU, EGU, Goldschmidt, CCVG, IAVCEI) Societies or Commissions.

2003-Present Reviewer of >40 manuscripts submitted to the top journals of Earth Sciences (e.g., EPSL, GCA, GRL, Lithos, Geology, SR of Nature, JGR, G3, JVGR, BV, AG, etc), as well as of National and International projects.

**EXPERIENCES ABROAD**

Between 2017 and 2019, Visiting Academic at The University of Manchester (~1.5 months), University of Wien (~2.5 months), OVPF (Observatoire Volcanologique du Piton de la Fournaise, IPGP) La Réunion (~2 months) supported by own project funds or funds of the hosting scientist.

Milan, January 19th, 2025

 Andrea Luca Rizzo



**List of Publications – ANDREA LUCA RIZZO**

[**https://orcid.org/0000-0003-2225-3781**](https://orcid.org/0000-0003-2225-3781)

##### PUBLICATIONS AND METRICS OVERVIEW

101 scientific Articles plus 2 contributions in an AGU book, published in international peer-reviewed journals (ISI) from 2003 to present (detailed list below). Scopus H-INDEX: 29 (as of January 2025). 5 technical reports (4 in Italian journals).

*International peer-reviewed Journals*

1. Kim D., Lee H., Lee M.J., Park C., **Rizzo** A.L. (2025), Upper mantle scale enrichment of Cenozoic intraplate magmatism in Northeast Asia: He-Sr-Nd-Pb-O isotope geochemistry of the basalts around the Korean peninsula, Gondwana Res. 137, 349-364. https://doi.org/10.1016/j.gr.2024.09.016
2. G Boudoire, N Bobrowski, P -Y Burgi, S Calabrese, L France, G Giuffrida, F Grassa, K Karume, J -C Kazadi Mwepu, J Kuhn, R Moritz, O Munguiko Munyamahoro, A L **Rizzo**, D Tedesco (2024), Magmatic activity in incipient continental break-up as revealed by coupling melt and fluid inclusions, Journal of Petrology; egae125, https://doi.org/10.1093/petrology/egae125
3. Robidoux P., Moussallam Y., Rose-Koga E.F., **Rizzo** A.L., Georgeais G., Lages J., Lévresse G., Ferrando S., Aiuppa A. (2024), New insights from plumbing system below composite mafic volcanoes: Post-glacial volatile contents and magmatic fluids from Villarrica magmas, Lithos, <https://doi.org/10.1016/j.lithos.2024.107786>
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