

## Curriculum vitae of Riccardo Tribuzio (April 2024)

### Personal details

Date and place of birth: December 16, 1962 in Genova (Italy)

Nationality: Italian

Affiliation: Department of Earth and Environmental Sciences, University of Pavia (Italy)

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### Education

1992: Ph.D. in Mineralogy and Crystallography at University of Pavia

1987: Graduated *cum laude* in Geological Sciences at University of Genova

### Academic positions

Since 2011: Full Professor in Petrology, University of Pavia

2000-2010: Associate Professor in Petrology, University of Pavia

1992-2000: Permanent Research position in Petrology, University of Pavia

### Research focus: petrogenesis of magmatic, metamorphic and mantle rocks

Multidisciplinary methodological approach, which may comprise field and petrographic studies, major and trace element microanalyses, radiogenic and stable isotope analyses, and geochronological determinations. The major recent interests are:

- Origin and evolution of the gabbroic and mantle sections from the Alpine Jurassic ophiolites
- Magmatic to hydrothermal evolution of lower oceanic crust from Atlantis Bank (Southwest Indian Ridge)
- Genesis of post-collisional mafic-ultramafic intrusive sequences of Permian age exposed along the Alpine belt
- The arc-related mafic-ultramafic intrusive sequences of Cambrian age from northern Victoria Land (Antarctica)

### Applied environmental research: major interests

- CO<sub>2</sub> storage in mafic-ultramafic rocks
- Distribution of sulfides and their role in concentrating chalcophile metals and platinum group elements
- Distribution and quantitative evaluation of asbestos fibers in ophiolites

### Major institutional activity at University of Pavia

2022-2023: Coordinator of the PhD program in Earth and Environmental Sciences

2013-2019: Coordinator of the bachelor's and master's degree courses in Earth Sciences

2006-2011: Deputy Director of the Department of Earth Sciences

### National and international institutional activity

Since 2022: Deputy Italian delegate at ECORD (European Consortium for Ocean Research Drilling) Science Support and Advisory Committee

Since 2019: Member of the national committee devoted to the Italian participation in the International Ocean Discovery Program (IODP) and the International Continental Scientific Drilling Program (ICDP)

Since 2019: Coordinator of the Italian "Working group on Mediterranean ophiolites"

2020-2021: Italian delegate at ECORD (European Consortium for Ocean Research Drilling) Science Support and Advisory Committee

2014-2017: Member of the ABYSS Scientific Advisory Board, an Initial Training Network on reactive geological systems from the mantle to the abyssal sub-seafloor funded by the European Commission

### **Invited talks and lectures**

2023: Keynote speaker in the session “Oceanic lithosphere: rocks, minerals, and critical resources” of the 9<sup>th</sup> meeting of the Mineralogical Society of Poland (Bielawa, Poland)

2015: Lecturer at the summer school “Ocean crust processes: magma, faults, fluxes and life” (Bremen, Germany)

2011: Keynote speaker in the session “Magmatic processes in the lower oceanic crust” of the American Geophysical Union - Fall Meeting (San Francisco, California)

Lecturer at the University of Montpellier (France, 2018), the University of Southampton (UK, 2017), the Leibniz University of Hannover (Germany, 2010), and the Italian Universities of Bologna (2009), Parma (2009) and Genova (1992, 2006 and 2008).

### **Recent international collaborations**

- Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China
- Géosciences Montpellier, University of Montpellier, Montpellier, France
- European Institute for Marine Studies, Université de Bretagne Occidentale, Brest, France
- University of Strasbourg, Strasbourg, France
- Institute of Geological Sciences, Freie Universität Berlin, Berlin, Germany
- Federal Institute for Geosciences and Natural Resources, Hannover, Germany
- Institute of Geological Sciences, Polish Academy of Science, Wrocław, Poland
- Khalifa University of Science and Technology, Abu Dhabi, United Arab Emirates

### **Participation in research expeditions**

December 2015 - January 2016: IODP expedition 360 - Southwest Indian Ridge Lower Crust and Moho

December 2004 - January 2005: 20<sup>th</sup> Italian expedition in Antarctica

### **Scientific awards**

1992: Best Italian Doctoral Thesis in Geochemistry and Petrology, awarded by the Italian Society of Mineralogy and Petrology

### **Teaching**

- Petrography - Bachelor course in Geological Sciences - Italian language
- Petrogenetic processes and evolution of the lithosphere - Master course in Geosciences for Sustainable Development” - English language

Teaching experience also in Geochemistry, Regional Geology, Mineralogy and Fieldwork Geology.

### **Training**

- Supervision of about 20 Bachelor Theses and about 30 Master Theses. Two of the tutored master students have now permanent research positions:
  - F. Schiavi: Research Engineer at the University of Clermont Auvergne (France)
  - M. Tiepolo: Full Professor in Geochemistry at the University of Milano (Italy)
- Supervision of nine Doctoral Theses. He is currently tutor of two PhD students, including one from the China University of Geosciences (Beijing). Four of the tutored PhD students have now permanent research positions in Italy:
  - R. Braga: Associate Professor in Petrology at the University of Bologna
  - S. Fiameni: Researcher at Institute of Condensed Matter Chemistry and Technology for Energy (Italian “Consiglio Nazionale delle Ricerche”)
  - M.R. Renna: Associate Professor in Petrology at the University of Messina
  - A. Sanfilippo: Associate Professor in Petrology at the University of Pavia
- Supervisor of post-doctoral fellow C. Ferrando (2020-2022), now researcher in Petrology at the University of Genova (Italy).

### **Editorial activity**

Since 2016: Associate Editor of *European Journal of Mineralogy*

2011: Guest Editor of a *Lithos* thematic Issue entitled "Alpine ophiolites and modern analogues" (volume 124, 161 pp.)

1996-2013: Chief Editor of *Ophioliti*

Since 1992: Manuscript reviewer for high impact scientific journals, such as *Journal of Petrology*, *Contributions to Mineralogy and Petrology*, *Lithos*, *Chemical Geology* and *Journal of Metamorphic Geology*.

### **Organization of international conferences**

2018: 3<sup>rd</sup> European Mantle Workshop (Pavia, Italy)

2018: Post-cruise meeting of IODP Expedition 360 - Southwest Indian Ridge Lower Crust and Moho (Siracusa, Italy)

2009: Alpine Ophiolites and Modern Analogues (Parma, Italy)

2002: 1<sup>st</sup> InterRidge Theoretical Institute - Thermal regime of ocean ridges and dynamics of hydrothermal circulation (Pavia, Italy)

1999: Orogenic Iherzolites and mantle processes (Pavia, Italy)

1995: International Ophiolite Symposium - From rifting to drifting in present-day and fossil ocean basins (Pavia, Italy)

### **Organization of international schools**

2021: International School on Mantle Dynamics (Sestri Levante, Italy)

2019: Structure and composition of the lower continental crust (Pavia, Italy)

2017: Melting and fluid/melt-rock reactions in the mantle (Pavia, Italy)

2013: Zircon a key mineral for dating and tracking geological processes (Pavia, Italy)

### **Research projects funded by national agencies**

Responsible of the University of Pavia unit (Co-PI) in:

- "Programma Nazionale di Ricerche in Antartide" 2004, 2009 and 2016
- "Programma di Ricerca di Interesse Nazionale" 2002, 2003, 2005, 2007, 2009, 2015 and 2022
- "Consiglio Nazionale delle Ricerche - Agenzia 2000"

### **Research grants**

2014: Grant for a one-year post-doctoral position, in collaboration with Prof. Gianreto Manatschal (University of Strasbourg, France), funded by "Università Italo Francese - Bando Vinci"

2002: Grant to perform bulk-rock chemical analyses at the University of Bristol, funded by "Large Scale Geochemical Facility" (European Commission - Access to Research Infrastructures Action)

1995: Scholarship by the Italian Society of Mineralogy and Petrology for a research visit at the Royal Holloway, University of London (UK), to carry out Nd-Sr isotopic analyses

### **Other activities**

- Reviewer of national and international research proposals
- Co-proponent of the current ICDP project DIVE (Drilling the Ivrea-Verbanò zone)
- Field leader of excursions associated to international conferences

### **Bibliometric overview (Scopus data source)**

- 93 documents
- 2765 citations by 1610 documents
- *h*-index 33

2019-2024: 20 documents with 194 citations