

SIMONA FERRANDO

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PERSONAL PARTICULARS

Nationality: italian

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EMPLOYMENT

2019 -: Associate Professor of Petrology and Petrography at the Department of Earth Sciences of the University of Torino (UniTO)

2005 - 2019: researcher of Petrology and Petrography at the Department of Earth Sciences of the University of Torino (UniTO)

2005: fellowship (Department of Mineralogical and Petrological Sciences; UniTO)

2004-2005: post-doc fellowship (Department of Earth Sciences; University of Siena)

2003: fellowship (Department of Mineralogical and Petrological Sciences; UniTO)

2000-2001: technician (Department of Mineralogical and Petrological Sciences; UniTO)

EDUCATION

2004: Ph.D. in Earth Sciences at the University of Torino. Thesis on “Kyanite-epicote eclogites and OH-rich topaz-kyanite quartzite from Hushan and Qinglongshan (Donghai Province), UHP Su-Lu orogen (eastern China): petrological, minerochemical, fluid inclusion and stable isotope study”. Supervisors: Prof. Roberto Compagnoni and Prof. Maria Luce Frezzotti.

1999: Graduated *magna cum laude* and mention in Earth Sciences (“Laurea in Scienze Geologiche”) at the University of Torino (“Geological-petrographic study of the Canavese Zone between Issiglio e S. Anna Boschi (Torino)”. Supervisor: Prof. Roberto Compagnoni.

AWARDS

2002: award “Prof. Ugo Pognante” for the best Master Thesis on the Alpine-Himalayan orogen

2000: award for the best Master Thesis Earth Sciences in the 1998/99

RESEARCH

Papers: more than 55 papers; more than 1320 citations; h-index: 19 (scopus)

Attendances at national/international congresses: more than 125 attendances, 59 as oral presentations (26 as oral presenting author).

Fields of interests: fluid-rock interaction and P-T-t-X evolution in continental and oceanic lithosphere during rifting, subduction and exhumation and geodynamic interpretation; minero-petrographic, microRaman and fluid inclusions applications in Petrology, Sedimentology, Cultural Heritage and Public Health.

PARTNERSHIPS

- University of Milano Bicocca, Italy (M.F. Frezzotti)
- University of Milano Bicocca, Italy (M. Malusà)
- University of Perugia, Italy (M. Petrelli)
- Khalifa University, UAE (A. Decarlis)
- IGG-CNR, Italy (L. Dallai; G. Fioraso; P. Mosca; F. Piana)
- INGV, Italy (G. De Astis)
- Universität Basel, Switzerland (D. Bernoulli)
- Universität Bonn, Germany (N. Froitzheim)
- University of Iowa, Iowa City, USA (J. Gilotti)

- EOST/IPGS Université de Strasbourg/CNRS, Strasbourg, France (G. Manatschal)
- University of Botswana, Gaborone, Botswana (A. Proyer)
- University of Bern (Universität Bern), Switzerland (D. Rubatto)

OTHER SCIENTIFIC TASKS

Role: member of the Technical and of the Scientific Committee of the Interdepartmental Center "G. Scansetti" for Studies on Asbestos and other Toxic Particulates (Torino)

Laboratory: person in charge of the "Fluid inclusion laboratory" at the Department of Earth Sciences (Torino), and of the "Laboratory of Raman microspectroscopy" at the Department of Earth Sciences (Torino).

Funding: participant or person in charge of local, national and international research funds; partner of the "FluidNET" MSC-ITN project (started January 1st 2021).

Editorial and reviewer tasks: member of the Editorial Board of *Frontiers in Petrology*; Topic Board of *Geosciences*; reviewer for *American Mineralogist*, *Central European Journal of Geosciences*, *Chemical Geology*, *Contributions to Mineralogy and Petrology*, *European Journal of Mineralogy*, *Geochimica et Cosmochimica Acta*, *Geological Journal*, *Geology*, *Iranian Journal of Earth Sciences*, *Journal of Asian Earth Sciences*, *Journal of Geochemical Exploration*, *Journal of Petrology*, *Journal of Metamorphic Geology*, *Journal of Mineralogical and Petrological Sciences*, *Journal of Structural Geology*, *Lithos*, *Mineralogy and Petrology*, *Nature Scientific Report*, *Ophioliti*, *The Geological Society of America Bulletin*, *Precambrian Research*, *Gondwana Research*.

Meeting organization: member of the scientific secretariat of the international congress ECROFI XVIII (*European Current Research on Fluid Inclusions*, Siena, 6-9 July 2005); member of the organizing secretariat of the meeting "Advances in Petrology" in honour of Prof. E. Callegari (Torino, 8-9 October 2005); co-convenor of the session "Multidisciplinary approaches for the reconstruction and tectonic interpretation of P-T-t paths" (Geoitalia 2009 meeting); member of the organizing committee of the congress "Amianto, salute e territorio" organised by the Scansetti Center (Torino, 25-26 May 2010); member of the organizing committee of the congress 10th IEC (*International Eclogite Conference*; Courmayeur, 2-10 September 2013); co-organizer of the e-CROFI 2021 (*European Current Research on Fluid Inclusions*, virtual conference, 2021); organizer of the ECROFI 2025 (*European Current Research on Fluid Inclusions*, Torino, 2025).

Invited talk: invited lecture at the Univ. Science and Technology of China (Hefei, October 2011): Ferrando S. "Fluids released during deep continental subduction: the "fluid" inclusion perspective"; invited talk at SGI-SIMP Congress, Milano, Italy (10-12 September 2014): Ferrando S. & Frezzotti M.L. "Fluid inclusions as tracers for the chemical-physical behaviour of deep-subduction fluids". invited talk at SGI-SIMP Congress, Firenze, Italy (02-04 September 2015): Ferrando S. & Frezzotti M.L. "Petrological and geochemical role of fluid phases in orogenic settings."; invited lecture at the University of Milano Bicocca (12 April 2016) "Subduzione profonda di crosta continentale e sue interazioni con il mantello: il caso dell'Unità Brossasco-Isasca (Massiccio Dora-Maira, Alpi occidentali)"; keynote at ECROFI 2019 (*European Current Research on Fluid Inclusions*), Budapest, Ungheria (23-27 giugno 2019): FERRANDO S.: UHP fluid inclusions: indicators of the petrological and geochemical role of the fluids released at sub-arc depths; invited talk at Goldschmidt 2020 Virtual (21-26 June 2020): FERRANDO S., PETRELLI M., FREZZOTTI M.L. (2020): Trace-element behavior in UHP fluid inclusions: indicator of the petrological and geochemical evolution of the slab-released fluids.

DIDACTICS

2018 - : lecturer of Petrography with Laboratory (Natural Sciences, Torino)

2009 - 2018: lecturer of "Geology with Laboratory", Laboratory of rock recognition (Earth Sciences, Torino).

2008 - : lecturer of Laboratory of Petrography (Earth Sciences, Torino).

2006 - : lecturer of courses for Ph.D. students: “Introduction to fluid inclusion study”, “Raman spectroscopy applied to Geological and Environmental Sciences”, “Practical course on microraman”, “Raman Day”, “Raman week”; invited lecturer at the school for PhD students “III Scuola di Spettroscopia Raman nelle Scienze della Terra e dell’Ambiente” (Università di Milano Bicocca, 14-16 January 2014); organizer of the school for PhD students “IV Scuola di Spettroscopia Raman nelle Scienze della Terra e dell’Ambiente” (Torino, 19-21 January 2016); co-organizer of the school for PhD students “Raman Spectroscopy Applied to Earth, Environmental and Chemical Sciences” (Torino-Milano, 25-27 January 2017).

2005 - : tutor of Bachelor, Master and PhD theses on metamorphic petrology, fluid inclusion study, Raman spectroscopy.

2005 - 2008: assistance during practical exercises for the course of Petrography for Earth Sciences, Natural Sciences, Cultural Heritage.

OTHER

2020 - : member of the departmental spaces committee (Department of Earth Sciences)

2019 - : member of the public engagement committee (Department of Earth Sciences)

2018 - : member of the laboratory committee (Department of Earth Sciences)

2016 - 2019: member of the Faculty Council

2015 - : member of the department committee (Department of Earth Sciences)

2008 - 2020: member of the Vocational, Tutor, Job Placement committee (Earth Sciences).

2008 - 2019: member of the didactic committee (Earth Sciences)