

PERSONAL INFORMATION **SONIA SANDRONI**

Address Piazza G. Rossa 6 - Serre, 53040 Rapolano Terme (Siena) - Italy

email: sonia.sandroni@unisi.it

Sex F | Date of birth 04/12/1970 | Nationality Italian

EDUCATION

July 1989: high school diploma in accounting and computer programmer (IT Bandini, Siena).

16/04/1996: graduated in Earth Sciences (summa cum laude) (University of Siena).

27/11/2001: PhD in Earth Sciences (University of Siena).

Training Courses

27/07-16/08/1997: Intermediate-level English course at the Anglo Continental School (Bournemouth, UK).

24/08-06/09/1997: Field training to participate in the Antarctic Italian expeditions (ENEA Brasimone and Valle d'Aosta, Italy).

15-19/06/1998: Short course on zircon dating techniques at the Department of Earth Sciences, University of Padova, Italy.

14-18/09/1998: III School of National Petrography Group "Subsolidus processes in rocks and materials" (University of Pavia, Italy).

05-09/10/1998: Course on microstructures of metamorphic and igneous rocks (Oropa, University of Milan, Italy).

14-19/06/1999: Mineralogy National Group's Summer School "Water-rock interactions: mineralogical, petrological, geochemical and environmental aspects" (Cagliari, Italy).

21-26/05/2000: Course on geochronology and isotopical geochemistry (Verbania-Pallanza, University of Milan, Italy).

3/10-28/11/2013: Course on "Scientific cultural assets cataloguing" (University of Siena, Italy).

13/10/2015: "Protecting against earthquakes" (University of Siena, Italy).

22-24/11/2016: "Health and safety at work. Medium risk (12 hours)" with examination (University of Siena, Italy).

7-20/04/2021: "Fondazione Scuola Beni Attività Culturali" course on "Musei in Corso. Officina\Orientarsi (II ed.)" (12 hours).

27/10/2023: "USiena press ed editoria ad accesso aperto" (5 hours) (University of Siena, Italy).

Qualification

6 February 2014: Associate professor qualification in Petrology (04/A1; GEO/07).

WORK EXPERIENCE

since 01/12/2022

Fixed-term contract (graduate technician) as petrographer at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.

Petrographical analysis, classification and cataloguing of Antarctic terrestrial and extra-terrestrial rock samples stored at the Museum.
Rock and meteorite repositories management.
Cataloguing of bibliographic materials and library management.
Museum guided visits, with scientific seminars on both general Antarctic and more specific themes (i.e., global climatic change, paleoclimate, history of Antarctic exploration, meteorites).

- 2021/2022 "Petrography laboratory" teaching contract, Geological sciences degree course at the Dipartimento di Scienze Fisiche, della Terra e dell'Ambiente, University of Siena.
- 27/05/2021 - 26/05/2022 Fixed-term contract as petrographer at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
- 01/03/2020 - 30/04/2021 Research Fellow (petrology) at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
- 27/10/2018 - 12/01/2019 Geologist at the Italian "Mario Zucchelli" Station (Antarctica).
Participation in the 2018/19 scientific Antarctic Italian expedition, within the framework of the PNRA-MIUR PNRA16_00072 and PNRA16_00040 projects, to collect new structural data and samples from crystalline basement and Permo-Triassic cover rocks in northern Victoria Land. Intensive rock sampling at Bowers Mountains, with remote field camp at Little Rocks.
- 01/11/2016 - 31/10/2019 Research Fellow (petrology) at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
- 17/11/2015 - 14/01/2016 Geologist at the Italian "Mario Zucchelli" Station (Antarctica).
Participation in the 2015/16 scientific Antarctic Italian expedition, within the framework of the PNRA-MIUR 2013/AZ2.08 project, to collect new structural data and samples from crystalline basement and Permo-Triassic cover rocks in northern and southern Victoria Land. Detailed study of the Triassic fossilized forest cropping out at Allan Hills (remote field camp).
- 27/12/2014 - 06/02/2015 Geologist at the Italian "Mario Zucchelli" and American "McMurdo" stations (Antarctica).
Participation in the 2014/15 scientific Antarctic Italian expedition, within the framework of the PNRA-MIUR 2013/AZ2.08 project, to collect new structural data and samples from crystalline basement, Permo-Triassic cover rocks and coastal glacial drifts in northern and southern Victoria Land.
- 01/05/2014 - 31/10/2016 Fixed-term contract (graduate technician) as petrographer at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
- 01/05/2012 - 30/04/2014 Research Fellow (petrology) at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
- 01/11/2011 - 31/12/2011 Scientific Consultant at the Fondazione Musei Senesi (Siena).
Popularisation of Antarctic Science by means of seminars and educational workshops especially addressed to all-level students, within the framework of the ESCAC Project (Scientific Education for Active and Informed Citizens).
- 01/10/2011 - 25/11/2011 Mathematics and Science Teacher at the Scuola Media Statale "J. Lennon" (Sinalunga, Siena).

CURRICULUM VITAE SONIA SANDRONI

- 22/06/2011 -21/07/2011 Fixed-term contract as petrologist at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
Petrological analyses of mafic rock samples from Dessent Range (northern Victoria Land, Antarctica).
- 10/10/2008 - 09/04/2011 Fixed-term contract (graduate technician) as petrographer at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
- 01/09/2007 - 31/08/2008 Research Fellow (petrology) at the Department of Earth Sciences, University of Siena.
Petrological, provenance and distribution analyses of rock clasts recovered within the glacial marine sediments of the ANDRILL drill cores (AND-1B, AND-2A; Ross Sea, Antarctica).
- 05/10/2007 - 08/12/2007 Petrologist at the McMurdo Station (Antarctica).
Participation in the 2007/08 scientific Antarctic Italian expedition, within the framework of the international drilling project ANDRILL (Antarctic Geological Drilling), to analyse composition and distribution of basement clasts recovered within the glacial marine sediments.
- 04/07/2007 - 23/07/2007 Fixed-term contract as petrologist at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
Petrological and mineral chemistry analyses of high and ultrahigh-pressure metamorphic rocks from Antarctica (northern Victoria Land) and Tasmania.
- 15/04/2006 -14/04/2007 Fixed-term contract as petrographer at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
Petrographical analysis, classification and cataloguing of Antarctic rock samples.
- 13/02/2007 - 03/03/2007 High School Science Teacher at the Istituto Tecnico "S. Bandini" (Siena).
- 20/11/2006 - 23/12/2006 High School Text Processing Teacher at the Istituto Statale di Istruzione Superiore "Roncalli" (Poggibonsi, Siena).
- 03/05/2006 - 16/05/2006 Mathematics and Science Teacher at the Scuola Media Statale "S. Pertini" (Asciano, Siena).
- 07/02/2005 - 08/06/2005 Mathematics and Science Teacher at the Scuola Media Statale "S. Bernardino da Siena" (Siena).
- 12/02/2002 - 11/02/2005 Postdoctoral Fellow at the Department of Earth Sciences, University of Siena.
Petrological, provenance and distribution analyses of rock clasts recovered within the glacial marine sediments of the Cape Roberts Project drill cores (CRP-1, CRP-2/2A, CRP-3; McMurdo Sound, Ross Sea, Antarctica).
- 25/10/2004 - 26/01/2005 Mathematics and Science Teacher at the Scuola Media Statale "G. Pascoli" (Montepulciano, Siena).
- 22/04/2004 - 08/06/2004 High School Science Assistant Teacher at the Istituto Statale di Istruzione Superiore "F. Redi - G. Caselli" (Montepulciano, Siena).
- 20/10/1999 - 14/12/1999 Petrologist and Editorial Assistant at the McMurdo Station (Antarctica).

Participation in the XV scientific Antarctic Italian expedition, within the framework of the international drilling project Cape Roberts (Coring for Antarctic Tectonic and Climatic History), as petrographer to analyse recovered basement clasts and editorial assistant.

July 1997 - July 1999 Editorial Assistant at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
 Layout management of scientific papers concerning the Cape Roberts Initial Report and Scientific Results special issues of the Terra Antarctica journal.

29/10/1998 - 22/12/1998 Editorial Assistant and Petrologist at the McMurdo Station and Terra Nova Bay Station (Antarctica).
 Participation in the XIV scientific Antarctic Italian expedition, within the framework of the international drilling project Cape Roberts (Coring for Antarctic Tectonic and Climatic History), as editorial assistant and petrographer to analyse recovered basement clasts, and later as geologist to sample granulite-facies rocks in northern Victoria Land (Deep Freeze Range).

11/10/1997 - 18/11/1997 Editorial Assistant at the McMurdo Station (Antarctica).
 Participation in the XIII scientific Antarctic Italian expedition, within the framework of the international drilling project Cape Roberts (Coring for Antarctic Tectonic and Climatic History), as editorial assistant and petrographer to analyse recovered basement clasts.

01/06/1996 - 30/11/1996 Fixed-term contract as petrographer at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.
 Petrographical analysis, classification and cataloguing of Antarctic rock samples.

PERSONAL SKILLS

Mother tongue	Italian		
Other languages	<i>understanding</i>	<i>speaking</i>	<i>writing</i>
English	proficient user	proficient user	proficient user
French	independent user	basic user	independent user

Good communication, organisational and managerial skills.

Driving license B

Computer skills Good command of Microsoft Office tools (Word, Excel, PowerPoint and Publisher).
 Good command of graphic design applications (Photoshop, Adobe Illustrator, Macromedia FreeHand) and publishing (Adobe InDesign).

SCIENTIFIC PROJECTS

1996-2000: PNRA "Cape Roberts Project", as researcher.

1998-2000: PRIN "Materiali terrestri ed analoghi sintetici ad alta pressione ed alta temperatura: proprietà fisiche, chimiche e reologiche", as researcher.

- 2000-2002: PNRA “Processi tettonici, sedimentari e biotici nel Mare di Ross durante la storia glaciale cenozoica dell'Antartide”, as researcher.
- 2002-2003: University of Siena “Granuliti migmatitiche del cratone est antartico: uno strumento per la comprensione dei processi crostali in condizioni metamorfiche di alta temperatura”, as responsible and coordinator.
- 2002-2004: PNRA “Correlazioni inter-regionali nell'Orogene di Ross nel settore Ross Sea/ Ross Ice Shelf delle Montagne Transantartiche: implicazioni sull'evoluzione tettonica del margine paleo-pacifico antartico del Gondwana”, as researcher.
- 2003-2005: PRIN “Percorsi P-T-t e processi geodinamici in ambienti di convergenza litosferica”, as researcher.
- 2003-2008: PNRA “ANDRILL Antarctic Drilling”, as researcher.
- 2004-2006: PNRA “Stratigrafia integrata e ciclostratigrafia delle sequenze glaciomarine oligoceniche del pozzo CRP-3”, as researcher.
- 2006-2008: PRIN “Terreni metamorfici di alta e altissima pressione e contesto geodinamico di formazione ed esumazione”, as researcher.
- 2008-2010: PRIN “Interazioni Criosfera-Litosfera in risposta ai forcing climatici e tettonici”, as researcher.
- 2012-2014: PNRA-MIUR “CLImate-tectonics Interactions along the TransAntartic Mountains Front and comparison with the arctic record in the Greenland-Svalbard region (CLITEITAM)”, as researcher.
- 2013-2015: PNRA-MIUR “Climate and tectonic forcings on sediment dispersal in the West Antarctic Rift System of South Victoria Land: a source-to-sink, multi-proxy provenance study”, as researcher.
- 2013-2015: PNRA-MIUR “High-pressure/ultrahigh-pressure (HP/UHP) and high temperature (HT) metamorphism in Antarctica: a key to reconstruct the evolution of past continents from the Mawson continent to Gondwana supercontinent”, as researcher.
- 2016-2018: PNRA-MIUR “Early Paleozoic geodynamics of northern Victoria Land and implications for Gondwana reconstructions”, as researcher.
- 2019-2021: PNRA-MIUR “Crustal anatexis up to ultra-high temperature conditions in Antarctica (HOTAntarctica)”, as researcher.

ADDITIONAL INFORMATION

Participation in seven scientific expeditions to Antarctica.

Scientific verifier for the Central Institute of Cataloguing and Documentation (ICCD) within the framework of the University museums network project.

SHORT C.V.

1989: high school diploma in accounting and computer programmer.

1996: graduated in Earth Sciences (summa cum laude) (University of Siena).

2001: PhD in Earth Sciences (University of Siena).

2002-2005: postdoctoral fellow at the Department of Earth Sciences (University of Siena).

2007-2008, and 2012-2014: research fellow at the Department of Earth Sciences (University of Siena).

Since 2006: petrographer and curator at the Museo Nazionale dell'Antartide - Earth Science Section of Siena.

She participated in seven scientific expeditions to Antarctica within the framework of international (1997-98, 1998-99, 1999-2000, 2007-08, and 2018/19) and national (2014-15, 2015-16, and 2018/19) research projects.

She participated in several research projects (PNRA 1996, 2000, 2002, 2003, 2004, 2012, 2013, 2016, 2019; MIUR 1998, 2003, 2006, 2008); she has been responsible and coordinator of a young-researcher scientific project (University of Siena, 2001).

She is author of 38 publications on peer-reviewed international journals. H-index: 18 (Scopus).

Expertise

Magmatic and metamorphic petrology, provenance studies of glacial marine sediments, microanalysis techniques (SEM, EMP).

Scientific interests

Provenance analysis of glacial marine Antarctic sediments (McMurdo Sound, Ross Sea), recovered within the framework of international research projects (Cape Roberts Project, ANDRILL). Investigated drill cores: CRP-1, CRP-2/2A, CRP-3, CIROS-1, CIROS-2, AND-1B, AND-2A.

Granulite-facies rocks and melting processes in pelitic, semipelitic and mafic rock compositions from Antarctica (northern Victoria Land, Shackleton Range, Dronning Maud Land).

Medium to high-grade metamorphic rocks from the Ross Orogen (northern Victoria Land).