

BROMBIN Valentina

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Born on September, 22nd 1990
in Abano Terme (Padova), Italy
Citizenship: Italian
Marital status: Single
Gender: Female

Current position

2014-present PhD student in Earth Science at Dept. of Physics and Earth Sciences at University of Ferrara, Ferrara, Italy. Supervisor: Prof. Massimo Coltorti.

Title of thesis: A petrological and geochronological study of basalts and xenoliths from the Tertiary Southalpine Veneto Volcanic Province.

Address of Dept.: Via G. Saragat, 44122 Ferrara (Italy).

Work experiences

29 May 2017-26 June 2017 Stage at Western Australian Argon Isotope Facility, Curtin University, Perth (AUS).

Performing Ar-Ar analyses on basaltic rocks (groundmass and mineralic separates).

11 March 2017-26 May 2017 Stage at ARC Centre of Excellence for Core to Crust Fluid Systems, Macquarie University, Sydney (AUS).

Determination of major elements compositions and high resolution BSE images with Zeiss EVO MA15 SEM of sulphides in mantle xenoliths .

Performing in-situ Re-Os analyses on sulphides in mantle xenoliths.

27 January 2016-23 March 2016 Stage at Dept. of Earth Science, University of New Hampshire (USA).

Performing in-situ analyses of trace element with LAM-ICP-MS (Laser Ablation Inductively Coupled Plasma Mass Spectrometer) on sample rocks.

Performing isotopic analyses of Sr-Nd-Hf-Pb on sample rocks.

8 January 2016-27 January 2016 Stage at Dept. of Geology, University of Vermont (USA).

Performing of $^{40}\text{Ar}/^{39}\text{Ar}$ dating analyses on whole rock basalts and mineral separates.

1 January 2015-1 March 2015 Collaboration in the project “Geological and Geochemical control of radon and natural radioactivity in the Euganean Hills district”.

Scientific responsible: Prof. R. Sassi. Dept. of Geosciences, University of Padova, Italy.

In situ measurements of natural radioactivity; sampling of rocks representative of Euganean district; preparation of sample rocks for chemical and micro-chemical analyses (cutting and grinding of sample rocks).

3-14 June 2008 Stage at ULSS 17 (Local Social Health Unit) of Este (Padova)-immunotransfusional service.

Education and training

2012-2014 *Laurea Magistrale in Geologia e Geologia Tecnica* (Master degree in Geology and Technical geology) at Dept. of Geosciences, University of Padova, Italy.

Final Mark: 110 cum lode/110.

Title of thesis: Geochemistry of magmatic rocks of Euganean Hills (Padua, Italy) and Berici Hills (Vicenza, Italy).

2009-2012 *Laurea Triennale in Scienze Geologiche* (Bachelor degree in Geological Sciences) at Dept. of Geosciences, University of Padova, Italy.

Final Mark: 110 /110.

2009 Diploma di Stato ad indirizzo scientifico (Italian Secondary School Diploma) (ITAS “P. Scalcerle”, Padova, Italy)

Final Mark: 83/100.

Courses

13 February 2017-17 February 2017 International Winter School -“Melting and fluid/melt-rock reactions in the mantle”, at Pavia, Italy.

22 May 2013-24 May 2013 Course of “Introduction of Seismic Interpretation” by Dr. Vittorio Maselli (ISMAR-CNR, Bologna, Italy), at at Dept. of Geosciences, University of Padova, Italy.

Teaching activities

3 July 2017-present Teaching tutor for course “Laboratorio di Petrografia” (“Petrographic laboratory”) at Dept. of Physics and Earth Sciences at University of Ferrara, Ferrara, Italy. Responsible of course: Prof. Emilio Saccani.

Assistance of second-year students to recognize metamorphic and magmatic rocks using optical microscope.

1 October 2016-24 January 2017 Teaching tutor for course “Geologia 1” (“Geology 1”) at Dept. of Physics and Earth Sciences at University of Ferrara, Ferrara, Italy.

Responsible of course: Prof. Michele Morsilli.

Assistance of first-year students to recognize metamorphic and magmatic rocks.

1 April 2016-25 July 2017 Teaching tutor for course “Laboratorio di Petrografia” (“Petrographic laboratory”) at Dept. of Physics and Earth Sciences at University of Ferrara, Ferrara, Italy. Responsible of course: Prof. Franca Siena.

Assistance of second-year students to recognize metamorphic and magmatic rocks using optical microscope.

13 June 2016-22 June 2016 Teaching tutor for course “Rilevamento geologico” (“Geological survey”) at Dept. of Physics and Earth Sciences at University of Ferrara, Ferrara, Italy.

Responsible of course: Prof. Piero Gianolla.

Assistance of second-year students to recognize geological structures in field, metamorphic and magmatic rocks during the geological survey in Monzoni-Predazzo-Val di Fassa (Trento, Italy).

Scientific communications

Peer-reviewed articles

1. *Refertilized mantle keel below the Southern Alps domain: evidence from the Marosticano mantle xenoliths.* **Brombin V.**, Bonadiman C., Coltorti M., Fahnstock M.F., Bryce J., Marzoli A. *Submitted to Lithos.*

Oral communications

1. *Cratonic and CO₂-rich metasomatism signatures recorded in Veneto Volcanic Province xenoliths.* “Geosciences: a tool in a changing world” (Pisa, Italy; 6 September 2017). Accepted.
2. *The temporal evolution of the Tertiary Magmatic Southalpine Province: evidence from Ar-Ar geochronology.* “Gruppo di Lavoro sulle Ofioliti Mediterranee-Giornata di presentazioni scientifiche dei giovani ricercatori” (Parma, Italy; 7 July 2017).
3. *Evidence of cratonic signature and carbonatite metasomatism in Marosticano xenoliths: an unexpected situation in Veneto Volcanic Province (Northern Italy).* Scientific Riunion for PRIN (Progetti di Ricerca di Interesse Nazionale- Research Projects of National Interest) “Geochemical and isotopic budget of highly metasomatised sub-continental mantle in the Africa and Europe geodynamic systems: modern and fossil analogues” (Firenze, Italy; 6 February 2017).
4. *Mantle xenoliths from Marosticano area (Northern Italy): a comparison with Veneto Volcanic Province lithospheric mantle.* “2nd European Mineralogical Congress” (Rimini, Italy; 11-15 September 2016).
5. *Petrological study of the lithospheric segment responsible for the Tertiary Sudalpine Magmatic Province.* “RiPetERò: Ricerca Petrologica in Emilia Romagna” (“Petrological Research in Emilia Romagna, Italy”) (Bologna, Italy; 10 April 2015).

Poster

1. *Cratonic signature and CO₂-rich metasomatism: new insights from Veneto Volcanic Province mantle xenoliths.* **Brombin V.**, Bonadiman C., Coltorti M., Fahnstock M.F., Bryce J., Marzoli A. “Goldschmidt” (Paris, France; 13-18 August 2017). *Accepted.*
2. *A geochronological study of mafic and acidic lavas from Veneto Volcanic Province (North-East Italy).* **Brombin V.**, Webb L., Bonadiman C., Marzoli A., Coltorti M. “European Geosciences Union (EGU) General Assembly 2017” (Vienna, Austria; 23-28 Aprile 2017).

3. *The peculiar case of Marosticano xenoliths: a cratonic mantle fragment affected by carbonatite metasomatism in the Veneto Volcanic Province (Northern Italy)*. **Brombin V.**, Bonadiman C., Coltorti M., Fahnestock M.F., Bryce J., Marzoli A. “European Geosciences Union (EGU) General Assembly 2017” (Vienna, Austria; 23-28 Aprile 2017).
4. *Carbonatite metasomatism in the Veneto Volcanic Province lithospheric mantle*. **Brombin V.**, Bonadiman C., Coltorti M., Fahnestock M.F., Bryce J.. MEREMA International Winter School- “Melting and fluid/melt-rock reactions in the mantle” (Pavia, Italy; 13-17 February 2017).
5. *Mantle xenoliths from Marosticano area (Northern Italy): a comparison with Veneto Volcanic Province lithospheric mantle*. **Brombin V.**, Bonadiman C., Coltorti M., Fahnestock M.F., Bryce J.. “European Geosciences Union (EGU) General Assembly 2016” (Vienna, Austria; 17-22 Aprile 2016)
6. *Geochemistry of magmatic rocks of Euganean Hills (Padua, Italy) and Berici Hills (Vicenza, Italy)*. **Brombin V.**, Marzoli A., Callegaro S., Jourdan F., Chiaradia M., Bellieni G., Sedeà R., De Vecchi G.. “European Mantle Workshop (EMAW)” (Wroclaw, Poland; 26-28 August 2015)

Awards and grants

2016 Winning of scholarship “Bando Giovani Ricercatori” (“Scholarship for young research”) for long-stay abroad.

2015 Winning of IUSS scholarship for long-stay abroad.

Other skills

10-15 September 2016 Student Helper at “2nd European Mineralogical Congress” (Rimini, Italy; 11-15 September 2016)

2016 First Certificate of English (level B2)

July 2009-January 2015 Waitress at “Antica Trattoria Antenore” of Agnolon Enio.

Address: Via Mirabello 64, 35038 Torreglia (Padova, Italy).

2008 Certificate ECDL (European Computer Driving License)

Driving license: B

Revised on July, 3rd 2017

I hereby authorize the processing of the personal data contained in this CV in compliance with the Italian Personal Data Protection Code (Legislative Decree no. 196 of 30 June 2003).

I hereby authorize the publication of the personal data contained in this CV in the University of Ferrara website.

