

CURRICULUM VITAE FOR LORENZO SCANDOLO



I. Personal details and contacts

Date of birth: July 24th 1989
City of birth: Pordenone (Italy)
Nationality: Italian
E-mail: Lorenzo89.scandolo@gmail.com; lorenzo.scandolo01@univeristadipavia.it
Current Employee: Ph.D student, Geosciences Department - University of Pavia, Via Adolfo Ferrata n.4, Pavia, Italy.
Last Employee: MD student, University of Padua, Via Gradenigo, Padova, Italy
Present address: Via G. Marconi, 1, Sacile (PN), 33077, Italy
Mobile: (+39) 3345932287
IM contact: Lorenzo.scandolo(skype)

II. Academic record and career

Ph. D. Research:

2013- Thermal expansion of mantle minerals inclusions in diamonds
present:: *Place:* Department of Earth and Environmental Sciences, University of Pavia, Italy.
Advisors: Prof.ssa M.C. Domeneghetti, M. Alvaro

Master degree – Geology and Engineering Geology (110/110)

Dissertation: Il comportamento in alta pressione del supergruppo dell'alunite: il caso della natrojarosite

2013: $NaFe_3(SO_4)_2(OH)_6$
Place: Department of Earth Sciences, University of Padua, Italy.
Advisor: Prof. Fabrizio Nestola

Bachelor degree – Geology (108/110)

2011: *Dissertation:* Elementi maggiori e tenori in zolfo di clinopirosseni di basalti CAMP
Place: Department of Earth Sciences, University of Padua, Italy.
Advisor: Prof. Marzoli

High school degree (78/100)

2008: *Dissertation:* Liceo Scientifico “G.Leopardi - E. Majorana” (PN)
Place: P.zza Maestri del lavoro 2, Pordenone, Italy

III. Scientific activit

A. Main research topics:

- HIGH PRESSURE RESEARCH:** Investigation of crystalline material at high pressure conditions by means of single-crystal X-ray diffraction using DAC (Diamond Anvil Cell) apparatus mounted on point detector and area detector diffractometers (Oxford diffraction – Agilent, Bruker and Huber systems).
- HIGH TEMPERATURE RESEARCH:** Investigation of crystalline material at high temperature conditions *in situ* by single-crystal X-ray diffraction using micro-furnace mounted on conventional diffractometer (Philips, Bruker and Huber systems).

c. Main collaborations

National: M. Chiara Domeneghetti (University of Pavia, Italy), Fabrizio Nestola (University of Padua, Italy), Ross J. Angel (Visiting professor, University of Padua, Italy), Matteo Alvaro (senior Ph.D. student, University of Padua, Italy)

B. Seminars & Courses

Jan 14th – Jan 16th 2014 3° Edizione Scuola Georaman Spettroscopia microRaman: teoria ed applicazioni
Milano
Feb. 19 – 24th 2014 DMG-Short Course “Doktorandenkurs”:
Bayreuth “High-Pressure Experimental Techniques and Applications to the Earth’s Interior”
Aug. 28-Sept 6th 2014 1st European crystallographic school
Pavia
Sept. 6-10th 2014 **Congresso SGI-SIMP**- The future of the Italian Geosciences- The Italian
Milano Geosciences of the future; poster presentation

Jan 27-30 th 2015 Bressanone(BZ)	Short Course: "The nature of diamonds and their use in Earth's study"
Feb 19 th 2015 Pavia	Short course: "Imparare a progettare in Europa"
April 2015 Pavia	Short course: "Public speaking", "Fondamenti della comunicazione- Scrittura (Dottorati area tecnico-Scientifica)
May 5-7 th 2015 Pavia	Short course: "Elasticity"
Aug 23-28 th 2015 Rovinj, Croatia	The 29th European Crystallographic meeting: poster presentation; "EoSFit workshop"
Sept 2 nd -4 th 2015 Firenze	Congresso congiunto SIMP-AIV-SoGeI-SGI , "Il Pianeta Dinamico, sviluppi e prospettive a 100 anni da Wegener"; poster presentation
Oct 2 nd 2015	Course: "Sicurezza e Salute nei Luoghi di Lavoro ai sensi del D.Lgs. 81/08"
Nov 3 rd -5 th 2015 Pavia	Short course: "Beni culturali complessi"
Jan 18 th -22 nd 2016 Pavia	Short Course: "Methods, databases and applications of X-ray powder diffraction"

C. Publications:

1. F.Nestola, S.J. Mills, B.Periotto, **L.Scandolo** (2013). "The alunite supergroup under high pressure: the case of natrojarosite", $NaFe_3(SO_4)_2(OH)_6$. Mineralogical Magazine, v. 77 no. 7 p. 3007-3017.
2. **L. Scandolo**, M.L. Mazzucchelli, M. Alvaro, F. Nestola, F. Pandolfo, M.C. Domeneghetti (2014). "Thermal expansion behavior of orthopyroxenes: the role of the Fe-Mn substitution". Mineralogical Magazine, v. 79 no. 1 p 71-87.
3. M. Alvaro, R. J. Angel, C. Marciano, S. Milani, **L. Scandolo**, M. L. Mazzucchelli, G. Zaffiro, G. Rustioni, M. Briccola, M. C. Domeneghetti and F. Nestola (2015). "A new micro-frunace for in situ high temperature single crystal diffraction measurements". Journal of applied crystallography, v. 48 no.4 p.1192-1200.
4. **L. Scandolo**, M. Alvaro, F. Nestola, M.C. Domeneghetti (2015). "Does the oxygen fugacity play a role on the thermal expansion behavior of almandine garnet?". American Mineralogist, submitted.
5. S. Milani, R.J. Angel, **L. Scandolo**, M.L. Mazzucchelli, T. Boffa-Ballaran, S. Klemme, M.C. Domeneghetti, R. Miletich, K. Scheidl, M. Alvaro, F. Nestola. "Elasticity of grossular garnet at high-pressure and temperature". American Mineralogist, submitted.

D. Others:

Tutor for mineralogy and laboratory (Assistance and supplementary educational activities for students in mineralogy teaching practical exercises) at Department of Earth and Environmental Sciences, University of Pavia, Italy (2014-2015). Prior achievement certificate of participation "Training course for tutoring collaborators".