

# Curriculum vitae Lisa Baratelli

## Personal information

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Nationality **Italian**  
Date of birth **15/07/1997**

## Work experience

- 30/03/2021 - 19/06/2021 Curriculum internship (master degree, 150 h.) at Earth Sciences Department, University of Milano, focused on crystal chemical characterization of arsenates through single crystal X-ray diffraction, electron microprobe and optical microscopy analyses.
- 11/2020 Student collaboration (25 h.) at Earth Sciences Department, University of Milan, focused on tutoring activity in Mineralogy course, to support and manage didactic material during optical microscopy exercises.
- 12/2019 - 06/2020 Student collaboration (110 h.) at Earth Sciences Department, University of Milan, focused on tutoring activity for high school students for draft projects and assistance in museum and laboratory visits at the facilities of the Department.
- 01/10/2018 - 30/05/2019 Curriculum internship (bachelor degree, 150 h.) at Earth Sciences Department, University of Milano, focused on cataloguing and description of part of the minerals belonging to the Magistretti collection, synthesis and high-pressure study of mineralogical phases, characterization of mineralogical phases with single crystal X-ray diffraction.
- 29/06/2015 - 17/07/2015 Traineeship at the associated geological study ABMGEO, in via Europa n.33, Morazzone, Varese, Italy (via high school). The traineeship focused on the redaction of a map showing the location of the wells in Varese province and the characterization of a landslide.

## Education

- Present PhD in Earth Sciences. Department of Earth Sciences, University of Milano, Italy.  
Stage abroad during PhD (3 months 2022): Fachbereich Erdsystemwissenschaften Mineralogisch-Petrographisches Institut, Universitat Hamburg, Hamburg, Germany.
- 09/2019 - 10/2021 Master degree in Earth Sciences, 110/110 with honors: "Studio cristallografico di arsenati e vanadati del supergruppo della brackebuschite provenienti dalla miniera della Valletta, Canosio, Val Maira (CN)". Department of Earth Sciences, University of Milano, Italy. Advisor: Prof. Fernando Cámara Artigas.
- 01/06/20 - 12/06/20 Rigaku School For Practical Crystallography.
- 09/2016 - 07/2019 Bachelor degree in Geological Sciences, 110/110 with honors: "Studio sulla stabilità della fase  $\text{Ca}_3(\text{Na,K})_2(\text{CO}_3)_4$  e ruolo nel frazionamento di terre rare nel mantello". Department of Earth Sciences, University of Milano, Italy. Advisor: Prof. Marco Merlini, co-advisor: Dr. Sula Milani.  
The following works on the thesis were presented:

09/2011 - 07/2016	<ul style="list-style-type: none"> <li>- S. Milani, L. Baratelli, D. Comboni, J. Maurice, P. Lotti, M. Merlini (2019) <i>Structure and thermal equation of state of Ca<sub>3</sub>NaK(CO<sub>3</sub>)<sub>4</sub> carbonate</i>. SIMP-SGISOGEI Congress "Il tempo del pianeta Terra e il tempo dell'uomo: le geoscienze tra passato e futuro". Abstract book: 203.</li> <li>- S. Milani, L. Baratelli, J. Maurice, M. Merlini (2019) <i>Structure and thermal equation of state of Ca<sub>3</sub>(Na,K)<sub>2</sub>(CO<sub>3</sub>)<sub>4</sub> carbonates and their role in REE partitioning</i>. Congresso "Deep Carbon 2019: Launching the Next Decade of Deep Carbon Science". Poster.</li> </ul> <p>High school degree, 90/100. Liceo scientifico Marie Curie, Tradate, Varese, Italy.</p>
<b>Mother tongue</b>	Italian
<b>Other languages</b>	English (B2)
<b>Additional skills</b>	Microsoft Office package, Adobe, Origin, WinGX, KrystalShaper, Diamond, VESTA, X'Pert HighScore, LabSpec6, CrystalSleuth, CrysAlisPro. Base level: Jana, GIS.
<b>Driving license</b>	B (2015)
<b>Honors and Awards</b>	2022 Premio per tesi magistrale di argomento cristallografico in memoria del prof. Fiorenzo Mazzi. Associazione Italiana di Cristallografia (AIC).
<b>Society membership</b>	From 01/2010: Gruppo Mineralogico Lombardo-Associazione Italiana di Mineralogia (GML-AIM). From 03/2022: Associazione Italiana di Cristallografia (AIC). From 03/2022: Società Italiana di Mineralogia e Petrologia (SIMP).
<b>Publications</b>	<ol style="list-style-type: none"> <li>3 Cámara, F., Baratelli, L., Ciriotti, M., Nestola, F., Piccoli, G., Bosi, F., Bittarello, E., Hålenius, U., Balestra, C. (2022) As-bearing new mineral species from Valletta mine, Maira Valley, Piedmont, Italy: IV. Lombardoite, Ba<sub>2</sub>Mn<sub>3</sub>(AsO<sub>4</sub>)<sub>2</sub>(OH) and aldomarinoite, Sr<sub>2</sub>Mn<sub>3</sub>(AsO<sub>4</sub>)<sub>2</sub>(OH), description and crystal structure. <i>Mineralogical Magazine</i>, 1-34.</li> <li>2 Cámara, F., Baratelli, L., Ciriotti, M.E., Nestola, F., Piccoli, G.C. (2021) Aldomarinoite, IMA 2021-054. CNMNC Newsletter 63; <i>Mineralogical Magazine</i>, 85.</li> <li>1 Baratelli, L., Conforti, V. (2021) Merlinoite, un nuovo ritrovamento a Trevignano Romano. <i>Rivista Mineralogica Italiana</i>, 2, pp. 122-125.</li> </ol>
<b>Communications to international and national congresses</b>	<ol style="list-style-type: none"> <li>3 Baratelli, L., Cámara, F., Mihailova, B. (2022) Raman spectroscopic study of omphacite at variable pressures. SGI-SIMP congress "Geosciences for a sustainable future", 19-21 September, Torino, Italy.</li> <li>2 Baratelli, L. (2022) Crystal chemical study of arsenates and vanadates of the brackebuschite supergroup from Valletta mine, Canosio, Val Maira (CN). Joint AIC-SILS conference, 12-15 September, Trieste, Italy.</li> <li>1 Baratelli, L., Cámara, F. (2022) Raman spectroscopic analysis of minerals of the arsenbrackebuschite group. 23<sup>rd</sup> general meeting of the International Mineralogical Association, 18-22 July, Lyon, France.</li> </ol>