

# Curriculum vitae et studiorum

for

**GIULIA MINGARDI**

(update 07 February 2022)



## 1. PERSONAL INFORMATION AND CONTACTS

Date of Birth: 19th May 1998 (24 years old)  
Place of Birth: Brescia, Italy  
Nationality: Italian  
Personal address: Via Nikolajewka, 3, Rodengo Saiano, 25050, Italy  
e-mail: [mingardi@geologie.ens.fr](mailto:mingardi@geologie.ens.fr) / [giulia.mingardi02@universitadipavia.it](mailto:giulia.mingardi02@universitadipavia.it)

## 2. EDUCATION

- Oct 2022 – Present **École Normale Supérieure (ENS) and University of Pavia**, PhD position in cotutelle, Paris and Pavia, France/Italy
- *Thesis project*: How mineralogical transformations impact the rheology of rocks at high pressure and temperature
  - *Supervisor*: Prof. Alexandre Schubnel, Prof Matteo Alvaro
  - *Co-Supervisor*: Dr. Julien Gasc
- Oct 2020 – Present **Istituto Universitario di Studi Superiori (IUSS)**, Master in Science and Technology, Pavia, Italy.
- Oct 2020 – Jul 2022 **University of Pavia**, Master in Applied Geology, Pavia, Italy
- *Final mark*: 110/110 cum laude with academic distinction
  - *Thesis*: Martian mantle heterogeneities inferred from in situ analyses of shergottites
  - *Supervisor*: Prof. Matteo Alvaro, Prof. Antonio Langone
- Aug 2021 – Nov 2021 **Seoul National University**, Traineeship at Earth Sciences Department, Seoul, South Korea.
- *Project*: A chemical look into the shergottite mantle source dynamics: Major and trace element analysis and Pb isotope systematics of Martian meteorites
  - *Supervisor*: Prof. Jung-Woo Park
  - SEM, EMPA, LA-ICP-MS, SHRIMP
  - Funded by IUSS and Collegio Ghislieri
- Sep 2019 - Feb 2020 **École Normale Supérieure**, Erasmus Traineeship at Earth Sciences Department, Paris, France.
- *Project*: P and T conditions inferred from zircon in pyrope from Dora Maira Massif, UHP unit, Western Alps
  - *Supervisor*: Prof. Christian Chopin

- Raman spectroscopy, optical microscopy, fitting data (OriginPro)
  - Funded by Erasmus Traineeship scholarship and Collegio Ghislieri
- Oct 2017 - Jul 2020     **University of Pavia**, Bachelor of Earth Sciences, Pavia, Italy
- *Final mark*: 110/110 cum laude with academic distinction
  - *Thesis*: P and T conditions inferred from zircon in garnets from Dora-Maira, UHP Unit, Western Alps. The Thesis is part of the project TRUE DEPTH funded by ERC (European Research Council)
  - *Supervisors*: Prof. Matteo Alvaro, Prof. Christian Chopin, Dr. Nicola Campomenosi
- Oct 2017- Jul 2022     **Ghislieri Merit College**, Pavia, Italy  
 Additional classes (including the study of foreign languages, meetings, conferences) and accommodation for students selected through a national competition.
- Sep 2012 – Jul 2017     **Liceo Scientifico A. Calini**, High School Degree, Brescia, Italy.  
 Final Grade: 90/100

### 3. PROFESSIONAL EXPERIENCES

- 2023:     **Teaching Assistant**, Ecole Normale Supérieure, PSL, Paris. Practical and theoretical classes given for the thermodynamics course.
- 2021:     **Tutoring activity**, University of Pavia, Pavia, Italy. Teaching assistant for laboratory classes for the MSc Course Analytical Methodologies, Dept Earth and Environmental Sciences, University of Pavia (Nov-Dec).
- 2019:     **Part – time Educational Guidance**, University of Pavia, Pavia, Italy. Providing information to high school students about the University (Jan – Sep).
- 2019:     **Apprentice at the Earth Science Department**, University of Pavia, Pavia, Italy. Planner at SEH (European Society of Herpetology) Congress 2019, Civic Natural History Museum of Milan (Jan-Jun).

### 4. MEMBERSHIP OF SCIENTIFIC SOCIETIES

- 2021 -     European Geosciences Union (EGU)
- 2019 -     Italian Society of Mineralogy and Petrology (SIMP)

### 5. AWARDS AND AKNOWLEDGEMENTS

- 2022:     **Con.Sienze award**: best Master thesis in science from The National conference of President and directors of Universities in Science and Technology (Conferenza Nazionale dei Presidenti e dei Direttori delle Strutture Universitarie di Scienze e Tecnologie).
- 2022:     **Roland Schlich award**: early Career Scientist's Travel Support (ECSTS) for EGU General Assembly 2022

2020: **28th Sclocchi Award:** bachelor's and 2<sup>nd</sup> level master thesis first prize 2020 given by SPE Italian Section (Society of Petroleum Engineers), EAGE (European Association of Geoscientists & Engineers) and Assorisorse (Sustainable Natural Resources and Energy)

## 6. SCIENTIFIC ACTIVITIES: Meetings, conferences, seminars and workshops

2023: **Mingardi G.**, Gasc J., Morefvand A., Crichton W.A., Schubnel A.: *Alpha-beta quartz transition in the lower continental crust: perspective from diffraction and acoustic data at high P-T conditions*. **EGU2023, Wien, Austria**. [presenter]

2022: **Mingardi G.**, Gilio M., Giuntoli F., Musiyachenko K., Alvaro M.: *Quartz and zircon in garnet elastic geobarometry of HP rocks from Sesia Zone*. **Alpine workshop, Ljubljana, Slovenia** [presenter]

Morana M., Gonzalez J.P, Barbaro A., **Mingardi G.**, Albarse F.G., Angel R.J.: *Using spectroscopy to measure strain in minerals*. **SIMP-SGI congress, Turin, Italy** [co-author].

**Mingardi G.**, Im S., Park J-W., Langone A., Mari N.: *Martian mantle heterogeneities inferred from in situ analyses of shergottites*. **IMA, Lyon, France and SIMP-SGI congress, Turin, Italy**

**Mingardi G.**, Gilio M., Giuntoli F., Musiyachenko K., Alvaro M.: *Quartz and zircon in garnet elastic geobarometry of HP rocks from Sesia Zone*. **IMA, Lyon, France and SIMP-SGI congress, Turin, Italy** [presenter]

**Mingardi G.**, Campomenosi N., Mazzucchelli M.L, Chopin C., Scambelluri M., Alvaro M.: *Elastic thermobarometry on Zircon-in-Garnet (ZiG) from the Brossasco-Isasca unit (Dora-Maira Massif, Western Alps)*. **EGU2022, Wien, Austria**. [presenter]

2020: **Mingardi G.**, Campomenosi N., Mazzucchelli M.L, Chopin C., Scambelluri M., Alvaro M.: *Elastic thermobarometry on Zircon-in-Garnet (ZiG) from the Brossasco-Isasca unit (Dora-Maira Massif, Western Alps)*. **EMC, Cracow, Poland** [presenter]

## 7. MAIN RESEARCH TOPICS

- Rock mechanics: Investigation of the mechanical and rheological properties of rocks at high pressure and temperature
- Elastic geo-thermobarometry: Investigation of elastic behaviour of host-inclusion mineral system by means of petrology and mineralogy.
- Planetary geology: Geochemical and mineralogical approach for the study of meteorites (Martian shergottites).

## 8. SKILLS and KNOWLEDGE

Computer Languages:        MATLAB

Software & Tools: Office suite (Word, PowerPoint, Excel), LaTeX, QGIS  
Italian Language: Mother tongue  
English Language: Level C1  
French Language: Level B2 DELF/DALF (June 2018)  
Korean Language: Level A1 (test Level 1, ASG Milan, score 90/100, April 2021)

## **9. PERSONAL INTERESTS and extra-curricular activities**

Sports: Goalkeeper in Folgore ASD from 2020 to 2022. Member of FFFD (Fédération Française de Flying Disc) from 2022 and part of PUC (Paris Université Club) flying disc team

Songwriter: SIAE registered author (Trapperconunnomeindie)

Volunteering: WWOOFING (World Wide Opportunities on Organic Farms) program: worked as a volunteer on a program to assist farmers in Denmark (Aug 2018) and in the United Kingdom (Jul 2016).