

Informazioni personali

Name: Mattia La Fortezza
Born in: Morbegno on the 9/06/1996
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Nationality: Italian



Academic experience

- November 2020 – today: PhD student in Earth Sciences at the University of Genova. Research description: application of ab initio calculations and thermodynamic simulations with the purpose to obtain information on chemico-physical and thermodynamic properties of MgSiO₃ polymorphs at deep mantle conditions.

Working experience

- October 2019 – September 2020: Tutoring activity (24 hours) for the course of *Principles of Geology – Introduction to Petrography* (Geological Sciences and Technologies, University of Milano-Bicocca)
- 1 October 2019 – 31 November 2019: Curricular internship for the course of *Principles of Geology – Introduction to Petrography* (Geological Sciences and Technologies, University of Milano-Bicocca)
- September 2019 – July 2020: Tutoring activity (78 hours) for the enrolled students orientation (Geological Sciences and Technologies, University of Milano-Bicocca)
- 2019: Student helper at the National Congress Parma 2019 “*Il tempo del pianeta Terra e il tempo dell’uomo: le geoscienze tra passato e futuro*” (16–19 September 2019)
- June 2014 – December 2014: participation and organization of musical events in Morbegno (SO, Italy).

Education and training

- 28-30 September 2020: participation at the GCI@home online congress and presentation of an oral contribution titled: “*Epiaxial match drives the growth of magnetite microinclusions in olivine in rocks recording deserpentinization under mantle conditions*”.
- 2020: Master Degree in Geological Sciences and Technologies **with honours** (University of Milano-Bicocca, Italy) – Thesis: “*Epitaxial mineral growth in olivine-hosted multiphase inclusions of subducted metamorphic harzburgites as monitor of fluid-mediated redox equilibria in the mantle*”.
- 16–19 September 2019: participation at the National Congress Parma 2019 “*Il tempo del pianeta Terra e il tempo dell’uomo: le geoscienze tra passato e futuro*” and presentation of a poster titled: “*Multiphase inclusions in harzburgites from the Betic Cordillera (Cerro de Almirez, Spain): growth and orientation of magnetite in olivine*”
- 9-13 September 2019: international course “*Fluids in the Earth*” (36 hours) held by R.J. Bodnar, L.V. Danyushevsky, B. De Vivo, and M.L. Frezzotti – with final exam (University of Milano-Bicocca, Italy).
- 2018: Bachelor Degree in Geological Sciences and Technologies **with honours** (University of Milano-Bicocca, Italy) – Thesis: “*Multiphase inclusions in harzburgites from the Betic Cordillera (Almirez, Spain): mechanism of magnetite growth and its orientation in olivine*”.
- 2015: scientific maturity at Liceo P. Nervi – Morbegno (SO, Italy)

Personal skills

Languages

English
Reading: Excellent
Writing: Excellent
Speaking: Good

Technical skills

- Crystallographic analyses with **single – crystal diffractometer** at the University of Pavia – Department of Science of the Earth and the Environment
- Chemical analyses with **Raman** spectroscopy at the University of Genova – Department of Earth Science, Environment, and Life

Informatic skills

- Use of crystallographic modelling softwares (OrientXplot and Epicalc)
- Decent knowledge of software of graphic analyses and realization (Origin)
- Good knowledge of the Office package
- Decent knowledge of ArcGis and SagaGis software
- Use of 3D geological modelling softwares (Skua e Move)

Relationship skills and abilities

- Communicative skills: efficiently presenting information, performing at seminars and presentations.
- Organizational skills: accomplish objectives and tasks within established terms; organize and complete multiple projects.
- Working in team as well as individually.

These skills have been acquired during the thesis activities, that involved multidisciplinary collaborations with several research groups. Good relationship skills have been acquired during free-time activities, mostly concentrated on music and volunteering activities.

Other skills and abilities

- Trekking
- Excellent musical knowledge (piano, acoustic and electric guitar, bass guitar)
- 2011 – 2014: animator at the oratory of Morbegno (SO, Italy).
- January 2013 – June 2013: volunteering activities at the retirement home of Morbegno (SO, Italy).
- January 2012 – June 2012 volunteering activities at the “Casa Madonna del Lavoro” at Nuova Olonio (SO, Italy).

Driving license

Type B

Publications

- Campione M., La Fortezza M., Alvaro M., Scambelluri M., Malaspina N. (2020) Commensurate growth of magnetite microinclusions in olivine under mantle conditions. ACS Earth and Space Chemistry.

Abstract at congresses

- La Fortezza M., Campione M., Alvaro M., Scambelluri M., Malaspina N. (2020) Epiaxial match drives the Growth of Magnetite Microinclusions in Olivine in rocks recording serpentinization under Mantle Conditions. In: Abstract book – GCI@home

- Malaspina N., Campione M., La Fortezza M., Scambelluri M. (2020) Epitaxial mineral growth in fluid inclusions monitors redox equilibria in subducting ultramafic rocks. In: Abstract book – Goldschmidt abstract archive.
- Malaspina N., Campione M., La Fortezza M., Alvaro M., Scambelluri M. (2019) Epitaxial mineral growth in fluid inclusions monitors redox equilibria in subducting ultramafic rocks. In: Abstract Book – American Geophysical Union Fall Meeting, San Francisco (USA)
- La Fortezza M., Campione M., Alvaro M., Scambelluri M., Malaspina N. (2019) Multiphase inclusions in harzburgites from the Betic Cordillera (Cerro de Almirez, Spain): growth and orientation of magnetite in olivine. In: Abstract Book – Congresso Nazionale Parma 2019 “Il tempo del pianeta Terra e il tempo dell’uomo: le geoscienze tra passato e futuro”, Parma (Italy).

I authorize the processing of personal data in conformity at d.lgs n. 196/2003.