



Mattia La Fortezza

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Education and training

2018

BSc degree in Geological Sciences

Multiphase inclusions in harzburgites from the Bétic Cordillera (Cerro de Almirez Spain) growth and orientation of magnetite in olivine - 110/110 with honours

University of Milano - Bicocca - Milan - IT

2020

MSc degree in Geological Sciences

Epitaxial mineral growth in olivinehosted multiphase inclusions of subducted metamorphic harzburgites as monitor of fluidmediated redox equilibria in the mantle - 110/110 with honours

University of Milano - Bicocca - Milan - IT

Academic experience

2020 - ONGOING

PhD student in Earth Sciences

University of Genova - Genova - IT

Application of ab initio calculations and thermodynamic simulations with the purpose to obtain information on chemico-physical and thermodynamic properties of MgSiO₃ polymorphs which are stable at deep mantle conditions in order to establish thermodynamic and mineralogical models which will be able to unravel the role of these polymorphs in deep mantle processes

Work experience

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 (1619 September 2019)

SIMP - Parma - IT

2019

Curricular internship for the course of Principles of

Geology Introduction to Petrography (Geological Sciences and Technologies)

University of Milano Bicocca - Milano - IT

Preparation and description of rock samples for the laboratory of Introduction to Petrography under the supervision of Prof.ssa Nadia Malaspina.

2019 - 2020

Tutoring activity (type A tutor) (Geological Sciences and Technologies)

University of Milano Bicocca - Milano - IT

Support and help for the enrolled students orientation under the supervision of Prof Marcello Campione.

2019 - 2020

Tutoring activity (type C tutor) (Geological Sciences and Technologies)

University of Milano Bicocca - Milano - IT

Tutoring activity in support of the course 'Principles of Geology - Introduction to Petrography' under the supervision of Prof.ssa Nadia Malaspina. Support for the students during the preparation of the exam 'Introduction to Petrography'.

Language skills

Italian

Mother tongue

English

Independent

Research interests

My research interests revolve around the fields of mineralogy, geochemistry and petrology, in particular ab initio thermodynamics of solid crystalline phases, as well as phase diagrams and phase relations of minerals at deep mantle conditions.

I am also interested in the petrological processes affecting subducting slabs, in particular dehydration reactions and stability of hydrous phases, and implications on mantle - wedge metasomatism.