

FABIANA RICHTER

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EDUCATION

2015-2021 | **Ph.D. Geosciences** | Dept. of Earth and Environmental Sciences, University of Rochester, NY, USA.
M.Sc. Geosciences

- Dissertation: *Interplay between Tectonics and Climate on the Tibetan Plateau Margins during the Late Cenozoic: Case Studies with Implications for the Aridification of Mid-Latitude Asia since the Miocene.*
- Collected more than 1000 carbonate and water samples from sedimentary outcrops, rivers and from a sediment drill core in the Tibetan Plateau margins (China).
- Analyzed the stable isotope (oxygen, carbon, hydrogen) and clumped isotope geochemistry of carbonates and water samples using mass spectrometry, collaborating with research groups from universities in the USA and China.
- Performed data analysis of own data and several compiled datasets using a combination of QGIS, MATLAB and Excel.
- Published 3 papers as a co-author; 3 first author publications in preparation; and presented research results at 6 international conferences and workshops.

2013-2015 | **M.Sc. Geosciences** | Departamento de Geologia, Universidade Federal de Ouro Preto, MG, Brazil.

- Dissertation: *Sedimentation, metamorphism and granite generation in a back-arc region: the crustal processes recorded in the Ediacaran Nova Venécia Complex (Araçuaí Orogen, Southeast Brazil).*
- Worked on the U-Pb zircon and monazite geochronology and Pressure-Temperature modeling of metamorphic and igneous rocks from southeast Brazil.

2008-2013 | **B.E. Geological Engineering** | Departamento de Geologia, Universidade Federal de Ouro Preto, MG, Brazil.

- Graduated with a bachelor's thesis grade of 10/10.

WORK EXPERIENCE

2015-2020 | **Teaching and Research assistant** | Dept. of Earth and Environmental Sciences, University of Rochester, NY, USA.

- Worked as a student researcher and taught laboratory courses for groups of 10-40 students. Courses: Hydrology and Water Resources; Introduction to Climate Change; Sedimentology and Stratigraphy; Oceanography; and Introduction to Earth Sciences.

2020 | **Online lecturer** | Instituto Minere, Belo Horizonte, MG, Brazil.

- Created video lectures and articles for the online course "Introduction to Geology and Mining".

2017 (Jul-Dec) | **Visiting student researcher** | Institute of Earth Environment, Chinese Academy of Sciences, Xi'An, Shaanxi, China.

- Worked with teams of Chinese researchers to collect samples from a sediment core and analyzed the isotopic composition of carbonates using a mass spectrometer (MAT-252) with an automated carbonate preparation device (Kiel II).

2012 (Jan-Jun) | **Visiting student researcher** | Department of Earth Sciences, Stellenbosch University, Western Cape, South Africa.

- Worked with an international research group to analyze and model the geochemical composition of granites and gneisses from South Africa and Brazil.

2011 (Jul) | **Intern** | Spelayon Consultoria, Belo Horizonte, MG, Brazil.

- Worked on a team to map, describe and report information about the biology in caves near Belo Horizonte, MG, Brazil.

2011 (Feb-May) | **Intern** | Fundação Gorceix, Ouro Preto, MG, Brazil.

- Described mineral grains from several regions to help assess local mining viability.

SKILLS

IT	Proficient in Excel, Power Point, Word, QGIS, Adobe Illustrator and Adobe Premiere Pro. Working knowledge of MATLAB and python.
Idioms	Portuguese (native), English (fluent), Spanish (intermediate), Chinese (elementary).

AWARDS

- University of Rochester, NY, USA: three-year Research Fellowship (2017-2020); two and a half-year Teaching Assistantship (2015-2016, Fall 2020); and one Asish Basu graduate student research grant (2016).
 - Geological Society of America: two graduate Student Research Grants in 2017 and 2019.
 - Montana State University and USA National Science Foundation: one travel grant to attend HKT Bozeman workshop (2019).
 - Brazilian National Research Council (CNPq): two-year full-time scholarship to conduct M.Sc. studies (2013-2015).
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EXTRA-CURRICULAR ACHIEVEMENTS

2017-present	Creator of the Geologia da Terra Youtube channel (www.youtube.com/geologiadaterra) and Facebook group (www.facebook.com/geologiadaterra).	Develops educational and instructional videos about Geosciences in Portuguese and English to promote science communication and outreach.
2019-present	Ambassador of the Geolatinas Organization (Latinas in Earth and Planetary Sciences).	Promotes and supports the work of Latinas in geosciences globally. Twitter: @GeoLatinas.
2017-2019	Sports director of the Association of Latin American Graduate Students (ALAS) at the University of Rochester.	Organized sports events and led weekly volleyball practices for members of ALAS and colleagues.