

FERNANDO PRADO ARAUJO

Geologist, MSc, 30

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EDUCATIONAL BACKGROUND

Doctor of Science, PhD

KU Leuven

📅 Oct 2018 – ongoing 📍 Leuven, Belgium

- Thesis: “The influence of Li, P, B and Cl on the evolution of LCT pegmatites and rare-metal mineralization processes: insights from the Buranga pegmatite, Rwanda”.
- I am investigating the melt-crystal-fluid geochemical evolution of P-rich rare-element pegmatites during the late magmatic and magmatic-hydrothermal crystallization stages.
- I use multiple in situ micro-analytical techniques, such as optical microscopy, electron microscopy (SEM), electron microprobe (EPMA), microthermometry, laser ablation mass spectrometry (LA-ICP-MS), and especially Raman spectroscopy to identify of mineral and fluid phases in the samples, assess their spatial relation, and quantify their composition.
- Research is supervised by Prof. Philippe Muchez and Dr. Niels Hulsbosch, as part of the project “Granite-related versus orogenic mineralization: insight from the W, Sn and Au mineralization in Rwanda”.

Master of Science

University of São Paulo

📅 Feb 2016 – Jul 2018 📍 São Paulo, Brazil

Mineralogy and Petrology concentration area - CNPq scholarship

- Dissertation: “The Inhandjara Leucogranite: An example of the magmatic-hydrothermal evolution in the Itu Granitic Province, Brazil”. Supervised by Profs. Lucelene Martins and Valdecir Janasi, as part of the project “Generation and Evolution of granitic magmas and tectonic implications: A contribution of Sr-Nd-Pb isotopic geochemistry and in situ geochemistry of zircons in granites from SE Brazil”.

Bachelor of Geology

University of São Paulo

📅 Feb 2010 – Dec 2015 📍 São Paulo, Brazil

- Graduation Thesis: “Petrogenesis of gneissic metatexites from Jundiá region, SP, Brazil”. Supervised by Prof. Lucelene Martins and Prof. Renato Moraes as part of the project “Metamorphism and partial melting in ancient Orogens”.
- 2012 – Research Project: Characterization of the magmatic and hydrothermal mineralogy of the Itaquí granite at the Polimix Quarry, Barueri (SP). Supervised by Prof. Lucelene Martins. RUSP Scholarship.

Undergraduate educational exchange

Australian National University

📅 Jul 2013 – Jun 2014 📍 Canberra, Australia

EXPERIENCE

KUL Raman Microscope Lab

Dedicated researcher

📅 2019 – ongoing 📍 Leuven, BE

- Responsible for training new users, instrument calibration and basic maintenance.

Teaching Assistant

Responsible for practical sessions

📅 2014 – ongoing 📍 São Paulo, BR and Leuven, BE

- 2019 – ongoing: Advanced Igneous and Metamorphic Petrology. KU Leuven - graduate course.
- 2017: Geological Mapping. University of São Paulo - undergraduate course.
- 2014 – 2015: General Geology - Earth System. University of São Paulo - undergraduate course.

PUBLICATIONS

- 2022 – Araujo FP., Hulsbosch N., and Muchez Ph. Paragenesis and precipitation stages of Nb-Ta-oxide minerals in phosphorus-rich rare-element pegmatites (Buranga dike, Rwanda). *Am. Mineral*, in press. DOI: [10.2138/am-2022-8201](https://doi.org/10.2138/am-2022-8201)
- 2021 – Alves, A., Janasi, VA., Pereira, G., Araujo, FP., and Munoz, PR. Unravelling the hidden evidences of magma mixing processes via combination of in situ Sr isotopes and trace elements analyses on plagioclase crystals. *Lithos*, 404, 106435. DOI: [10.1016/j.lithos.2021.106435](https://doi.org/10.1016/j.lithos.2021.106435)
- 2021 - Araujo, FP., Hulsbosch, N., and Muchez, Ph. High spatial resolution Raman mapping of complex mineral assemblages: Application on phosphate mineral sequences in pegmatites. *J. Raman Spec.*, 52(3), 690-708. DOI: [10.1002/jrs.6040](https://doi.org/10.1002/jrs.6040)
- 2020 – Araujo FP., Martins L., Pereira G., and Janasi VA. Inhandjara topaz leucogranite: A late rare metal-mineralized stock within the A-type Itu batholith, SE Brazil. *J. South Am. Earth Sci.*, 101, 102623. DOI: [10.1016/j.jsames.2020.102623](https://doi.org/10.1016/j.jsames.2020.102623)

LANGUAGES

Portuguese
English
Spanish
Italian
Dutch

