

CURRICULUM VITAE

2024

Tomás Guerreiro
4 March 1999
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CURRENT POSITION

- MSc Student. Master's in Geosciences. Department of Geosciences, University of Arizona, USA.
Advisor: Mauricio Ibáñez-Mejía. Specializations: Igneous Petrology, Geochemistry, Stable Isotopes.
25/08/2025 – present
- Research Assistant. Geosciences Department, University of Arizona.
Arizona LaserChron Center
25/08/2025 – present

EDUCATION

- Bachelor's degree. Bachelor in Geology. Geology Department, National University of Río Cuarto.
Thesis title: "*Geology of the southwestern portion of Sierra de La Huerta, between the Pampa de Laprida and Loma de Las Chacras, San Juan, Argentina*"
Supervision: Dr. E. A. Cristofolini, Dr. J.E. Otamendi
Specializations: Igneous and metamorphic petrology, and structural geology.
03/01/2017 - 03/10/2023
- PhD Student. PhD in Geosciences. Geology Department, National University of Río Cuarto. CONICET.
Project title: "*Petrología de las rocas ígneas máficas de la corteza profunda del Arco Famatiniano, Sierras de Valle Fértil y La Huerta, Provincia de San Juan, Argentina*".
Supervision: Dr. J.E. Otamendi, Dr. E.A. Cristofolini.
Specializations: Igneous petrology and geochemistry.
04/01/2023 – 01/08/2025

SCHOLARSHIPS

- EVC-CIN. Scholarship for the Encouragement of Scientific Vocations - National Interuniversity Council.
Argentine Ministry of Science, Technology and Innovation.
09/01/2022 - 04/01/2023

LANGUAGE SKILLS

- Spanish: Native language
- English: Advanced (C1). TOEFL iBT. Home edition. 97/120 (97 out of 120). 11/8/2024.

INFORMATIC SKILLS

- Good knowledge of **Office packages** (Word, Excel, Power point), **Adobe** (Illustrator), **QGIS**, **ENVI**, machine learning languages (**Rstudio** and **Python**), and geological software (**Isoplot**).

LAB SKILLS

- Broad experience in making thin section for petrography description and for electron micro probe analyzer (EMPA) analysis.
 - Basic knowledge of Electron Microprobe Analyzer (EMPA) and Laser Ablation Inductively-coupled plasma mass spectrometry (LA-ICP-MS).
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TEACHING EXPERIENCES

- Teaching Assistant. Introduction to Geochemistry. 2023-2024. Geology Department, National University of Río Cuarto.
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MEMBER OF ASSESSMENT COMMITTEE

- Closed teaching competition for the position of assistant professor with simple dedication. Geology Department, National University of Río Cuarto. 08/09/202.
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GRADUATE COURSES AND SEMINARS

- “*Multivariate analysis with R*”. Graduate Course. National University of Río Cuarto. 2023. Professor: Dra. Silvina Malpassi and Dra. Gabriela Palacio.
 - “*Dynamic of Orogenic Systems*”. Graduate Course. National University of Río Cuarto. 2023. Professor: Dr. Lucas Fennel.
 - “*Integral analysis of shear zones*”. Graduate Course. National University of Río Cuarto. 2023. Professor: Dr. Sebastián Oriolo.
 - “*Multidisciplinary approach (Petrology and Geochemistry, Structural Geology and Geochronology) to the study of high-grade zones*”. Graduate Course. National University of Río Cuarto. 2023. Professor: Dr. Juan Díaz Alvarado.
 - “*Subduction Zones and Mountain Generation: Exogenous and Endogenous Associated Processes*” Graduate Seminar. National University of Río Cuarto. 2023. Professors: Dr. Matías Barzola, Dra. Paula Armas, Dra Alina Tibaldi.
 - “*Applications and Principles of Zircon Geochronology and Thermochronology through Zircon Isotopes*”. Graduate Seminar. National University of Río Cuarto. 2024. Professor: Dr. Juan E. Otamendi.
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CONFERENCES

- Argentinian Conference of Geology Students, 2019 (CADEG)-Ensenada, Buenos Aires, Argentina. Participant.
 - Argentinian Conference of Geology Students, 2022 (CADEG)-Villa del Dique, Córdoba, Argentina. Organizer.
 - 14th Congress of Mineralogy, Igneous and Metamorphic Petrology, and Metallogenesis (14° MinMet y 5° PIMMA). Bahía Blanca. National University of the South. Participant and lecturer.
 - 22th Argentinian Geological Congress. San Luis. National University of San Luis. Participant and lecturer.
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ADDITIONAL EXPERIENCES

- One-month research visit at Eidgenössische Technische Hochschule (ETH), Zürich.
 - One-week fieldwork in the Italian and Swiss Alps as part of the mantle and migmatite field excursion of the MSc program at ETH Zurich.
 - Three-week field work in the northwestern region of Argentina, focusing on the comprehensive Phanerozoic geological evolution of the area. International cooperation project between National University of Río Cuarto (Argentina) and ETH (Zürich).
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SOCIAL AND DIVULGATION EVENTS

- “Ciclo de Charlas de Divulgación en Geología 2021”. Geology Department. National University of Río Cuarto Organizer.
 - “Ciencia Callejera 2022”. Geology Students Association. National University of Río Cuarto
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HOBBIES

- Outdoor activities (trekking, running, fishing), sport and music.
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LIST OF PUBLICATIONS

Giovanini, E., Befus, K. S., Otamendi, J. E., Cristofolini, E., Guerreiro, T., & Cisneros, M. (2024). Elastic thermobarometry on metapelites across the crustal section of the Famatinian Arc, Argentina. *Contributions to Mineralogy and Petrology*, 179(4), 1-24.

CONFERENCE PROCEEDINGS

Guerreiro, T., Cristofolini, E.A., Otamendi J.E., Escribano, F., (2023): Geología de la porción sur-occidental de la Sierra La Huerta, entre la Pampa de Laprida y la Loma de Las Chacras, San Juan, Argentina. *14° Congreso de Mineralogía, Petrología Ígnea y Metamórfica, y Metalogénesis (14° MinMet y 5° PIMMA)*. Bahía Blanca, Argentina.

Guerreiro, T., Cristofolini, E.A., Otamendi J.E., (2024): Diversidad de magmas en la corteza inferior y su control sobre líneas de descenso cumular: el caso del Complejo máfico-ultramáfico Las Juntas, arco Famatiniano, Argentina. *XXII Congreso Geológico Argentino*. San Luis, Argentina.
