# Pedro Doll

PH.D. SPECIALISED IN VOLCANO GEOCHRONOLOGY

*Now at: Seequent (Ōtautahi Christchurch, Aotearoa New Zealand)*

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## Education

**University of Canterbury | Te Whare Wānanga o Waitaha**  *Ōtautahi | Christchurch*
PHD IN GEOLOGY  *November 2020 – May 2025*

- Project: Postglacial effusive activity of Mt Ruapehu, Aotearoa New Zealand.
- Methods: Cosmogenic nuclide dating, paleomagnetism, remote sensing, geochemistry.
- Supervisors: Ben Kennedy, Alex Nichols, Jim Cole, Shaun Eaves (VUW).

**University of Buenos Aires**  *Buenos Aires, Argentina*
BSC. AND MSC. IN GEOLOGY  *2013 – 2018*

- Project: Gravitational processes hazard in the National Road 7, Central Andes.
- Methods: Remote sensing, geomorphology, sedimentology.
- Supervisor: Diego Winocur.

## Scientific contributions

### JOURNAL ARTICLES

**Doll, P.**, Kennedy, B.M., Nichols, A.R.L., Cole, J.W., Eaves, S.R., Townsend, D.B., Conway, C.E., Leonard, G.S., Davidson, J., 2025. Postglacial effusive activity at Mt Ruapehu, Aotearoa New Zealand: Lava flow volumes and eruptive rate. *Journal of Volcanology and Geothermal Research*, 468(108435). https://doi.org/10.1016/j.jvolgeores.2025.108435

**Doll, P.**, Eaves, S.R., Kennedy, B.M., Blard, P.H., Nichols, A.R.L., Leonard, G.S., Townsend, D.B., Cole, J.W., Conway, C.E., Baldwin, S., Fénisse, G., Zimmermann, L., Tibari, B., 2024. Cosmogenic $^3$He chronology of postglacial lava flows at Mt Ruapehu, Aotearoa / New Zealand. *Geochronology*, 6(3), 365-395. https://doi.org/10.5194/egusphere-2024-163

**Doll, P.**, Turner, G. M., Kennedy, B.M., Nichols, A.R.L., Greve, A., Leonard, G.S., Townsend, D. B., Cole, J.W., Conway, C. E., 2024. . Paleomagnetism-based chronology of Holocene lava flows at Mt Ruapehu, Aotearoa New Zealand. *Geochemistry, Geophysics, Geosystems*, 25(9). https://doi.org/10.1029/2024GC011745

### THESIS

**Doll, P.**, 2025. Postglacial effusive activity of Mt Ruapehu, Aotearoa New Zealand. PhD Thesis, University of Canterbury, 287 pp.

**Doll, P.**, 2018. Geomorphology and geological risk in the Cuevas and Mendoza river valleys between Puente del Inca and Quebrada Seca, Mendoza Province. MSc Thesis, Universidad de Buenos Aires, 209 pp.

### CONGRESS PUBLICATIONS

**Doll, P.**, Kennedy, B., Nichols, A., Schevchenko, A., Leonard, G., Townsend, D., Kilgour, G., Cole, J., 2023. Tales from wrinkly lavas: Analysing ogives in andesites from high resolution LiDAR data. IAVCEI Scientific Assembly, Rotorua, New Zealand.

**Doll, P.**, Eaves, S., Kennedy, B., Blard, P-H., Nichols, A., Leonard, G., Townsend, D., Cole, J., 2023. Cosmogenic $^3$He constraints of postglacial edifice construction at Mt. Ruapehu. Conference of the Geological Society of New Zealand.

**Doll, P.**, Kennedy, B., Turner, G., Nichols, A., Greve, A., Cole, J., Townsend, D., Leonard, G., 2022. Paleomagnetic constraints in Holocene lava flow eruption ages at Ruapehu, Aotearoa New Zealand. Conference of the Geological Society of New Zealand.

Winocur, D., **Doll, P.**, Benitez, A., Negri, C., 2022. Zonificación del riesgo geológico asociado a flujos de detritos en la Ruta N°7 entre el Arroyo del Chacay y Cortaderas, Provincia de Mendoza. XXI Congreso Geológico Argentino, Actas.

## Professional Experience

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| July 2025 - present | **Application Specialist,** Seequent: *Customer solutions for cloud-based geological modeling applications.* |
| January 2025 | **Field Trip Leader,** Carleton College: *Teaching, planning, marking.* |
| 2021 - 2025 | **Teaching Assistant**, School of Earth and Environment, University of Canterbury: *Lab classes handling, assignments grading, field trips assistance (exercises guiding, safety supervision, logistics).* |
| 2017-2018 | **Research Assistant**, Facultad de Ciencias Exactas y Naturales, University of Buenos Aires: *Data collection, data analysis, engagement with stakeholders.* |
| 2016 | **Research Assistant**, GNS Science / Massey University / University of Canterbury / Universidad Nacional del Comahue: *Data collection, engagement with stakeholders.* |

## Awards, Fellowships, & Grants

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| 2025 | **Jim Cole Prize**, Best PhD thesis in Geology, University of Canterbury | Te Whare Wānanga o Waitaha. |
| 2023 | **Honourable mention**, Best student presentation, Conference of the Geoscience Society of New Zealand. |
| 2022 | **Wellman Research Award**, Geoscience Society, Royal Society of New Zealand | Te Apārangi. |
| | **SAAFE Research Internship Program**, Australian Institute of Nuclear Science and Engineering (AINSE). |
| | **Postgraduate Student of the Year**, School of Earth and Environment | Te Kura Aronukurangi, University of Canterbury | Te Whare Wānanga o Waitaha. |
| | **Project Tongariro Memorial Award**, Tongariro Natural History Society. |
| 2016–2010 | **Various**, DAAD, UBA, PAD. |

## Extracurricular

### SERVICE

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| 2022 | **University of Canterbury**, Postgraduate representative. | *Christchurch* |
| 2017 | **Congress of Geology**, University student representative. | *Buenos Aires* |
| 2018–2014 | **NGOs (various)**, Volunteer (school support, home building). | *Buenos Aires* |

### OUTREACH

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| 2023 | **Volcanofest (IAVCEI scientific assembly),** Volunteer exhibitor. | *Rotorua* |
| 2016–2018 | **University of Buenos Aires Science outreach week**, Volunteer exhibitor. | *Buenos Aires* |

### LANGUAGES

**English:** Proficient spoken and written.
**Spanish:** Native speaker.
**German:** Advanced spoken and written.

### SOFTWARE SKILLS

**Python:** Coding, database analysis and ploting, modelling.
**QGIS, ArcMAP:** Mapping, data processing, map confection.
**MATLAB:** Basic coding.
**LAStools:** Point cloud processing, products confection.
**LEAPFROG:** Geological modeling, basic data analysis, and block model creation, interpretation, and management.