

Pedro Doll

PH.D. SPECIALISED IN VOLCANO GEOCHRONOLOGY

Now at: Sequent (Ōtautahi Christchurch, Aotearoa New Zealand)

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Education

University of Canterbury | Te Whare Wānanga o Waitaha

Ōtautahi | Christchurch
November 2020 – May 2025

PHD IN GEOLOGY

- 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
2013 – 2018

BSC AND MSC IN GEOLOGY

- 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 ${}^3\text{He}$ 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>

THESES

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 ${}^3\text{He}$ 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.

DATASETS

Doll, P., Kennedy, B., Nichols, A., Cole, J., Townsend, D., Eaves, S., Conway, C., Leonard, G., Davidson, J., 2025. Mount Ruapehu Summit Region and Rangataua Flows, New Zealand 2021. OpenTopography. <https://doi.org/10.5069/G9VT1Q92>

Professional Experience

- July 2025 - present **Application Specialist**, Sequent: *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

- 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**, Deutscher Akademischer Austauschdienst (DAAD), Universidad de Buenos Aires (UBA), Pädagogischer Austauschdienst (PAD).

Extracurricular

SERVICE

- 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

- 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 plotting, 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.