

Scott A. Reynhout

Doctor en Ciencias, mención Geología | Ph.D., Geology

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EDUCATION

- 2019 Doctor en Ciencias (Geología) | Ph.D. (Geology), Universidad de Chile
Dissertation topic: Insights on the Holocene climate of southernmost South America from paleoglacier reconstructions in Patagonia and Tierra del Fuego (46°-55°S)
- 2011 M.Sc. (Geology), University of Cincinnati
Thesis topic: Slow denudation within an active orogen: Ladakh Range, northern India
- 2008 B.Sc. (Geology), B.A. (Creative Writing), Beloit College
Thesis topic: Equilibrium Line Altitude Variance with Precipitation in the South-central Alps: Implications for Long-term Exhumation

PUBLICATIONS

- Reynhout, S.A.**, 2020, Efectos balísticos de perdigones antidisturbios “menos letales” en Chile y su relación con trauma ocular severo: *Ars Medica, Revista de Ciencias Médicas*, v. 45, no. 2, p. 46-54.
- Reynhout, S.A.**, Sagredo, E.A., Kaplan, M.R., Aravena, J.C., Martini, M.A., Moreno, P.I., Rojas, M., Schwartz, R., and Schaefer, J.M., 2019, Holocene glacier fluctuations in Patagonia are modulated by summer insolation intensity and paced by Southern Annular Mode-like variability: *Quaternary Science Reviews*, v. 220, p. 178-187.
- Dietsch, C., Dortch, J.M., **Reynhout, S.A.**, Owen, L.A., and Caffee, Marc W., 2014, Very slow erosion rates and landscape preservation across the southwestern slope of the Ladakh Range, India: *Earth Surface Processes and Landforms*, v. 40, no. 3, p. 389-402.
- Owen, L.A., Frankel, K.L., Knott, J.R., **Reynhout, S.**, Finkel, R.C., Dolan, J.F., and Lee, J., 2011, Beryllium-10 terrestrial cosmogenic nuclide surface exposure dating of Quaternary landforms in Death Valley: *Geomorphology*, v. 125, p. 541-557.
- Reynhout, S.**, and Garver, J.I., 2008, Equilibrium-line altitude variance with precipitation in the south-central Alps: implications for long-term exhumation: *Keck Research Symposium in Geology Short Contributions*, v. 21, p. 29-34.

In preparation

Reynhout, S.A., Sagredo, E.A., Aravena, J.C., Soteres, R.L., Kaplan, M.R., and Schaefer, J.M., in prep., Glacier advance during the Medieval Climate Anomaly in the Cordillera Darwin, southernmost South America (55°S).

Reynhout, S.A., and Sagredo, E.A., in prep., Equilibrium-line reconstructions for Holocene glaciers in Patagonia and Tierra del Fuego, 46°-55°S.

Non-peer reviewed publications

Reynhout, S.A., 2019a, Disparar a la cara: Etilmercurio, 5 December,

<https://www.etilmercurio.com/em/apuntado-a-la-cara/>

Reynhout, S.A., 2019b, ¿Perdigones de goma nomas? Usando la física para evaluar las municiones menos letales de Carabineros: Etilmercurio, 22 November,

<https://www.etilmercurio.com/em/goma/>

HONORS AND GRANTS

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| 2015-19 | Beca de Doctorado Nacional, Comisión Nacional de Investigación Científica y Tecnológica, Gobierno de Chile National Doctoral Scholarship, National Commission for Scientific and Technological Research, Government of Chile |
| 2015-19 | Estudiante de Doctorado, Núcleo Milenio Paleoclima del Hemisferio Sur Doctoral Student, Millennium Nucleus of Paleoclimate of the Southern Hemisphere |
| 2013 | Anderson Award, Recreational Equipment Inc. |
| 2009 | Arthur D. Howard Award, Geological Society of America |
| 2008-10 | University Graduate Scholarship, University of Cincinnati |
| 2008 | R.C. Stenstrom Award for Environmental Geology, Beloit College |
| 2007 | Lois Wilson Mackey Award for Creative Writing, Beloit College |
| 2007 | Undergraduate Researcher, Keck Geology Consortium |

CONFERENCE PARTICIPATION

Reynhout, S.A., 2020, Los peligros de la munición “antidisturbios”: Advertencias desde la física: presented at Miradas y Voces del Estallido Social: El Conflicto del Espacio Urbano, Universidad Católica de Temuco, remote, 18 Jun (invited speaker).

Reynhout, S.A., Sagredo, E., Kaplan, M., Aravena, J.C., Martini, M., Moreno, P., Rojas, M., and Schaefer, J.M., 2018, Influence of insolation and the Southern Annular Mode on Patagonian glacier extent during the pre-industrial Holocene: Abstract GN765CC presented at the XV Congreso Geológico Chileno, Concepción, Chile, 19-23 Nov (talk).

Soteres, R.L., Sagredo, E.A., Kaplan, M.R., Martini, M.A., Ugalde, P.I., **Reynhout, S.A.**, and Schaefer, J.M., 2018, Glacial expansion during the Antarctic Cold Reversal in northern

Patagonia: Abstract TS374TN presented at the XV Congreso Geológico Chileno, Concepción, Chile, 19-23 Nov (talk; presenting author).

Reynhout, S., Owen, L., Dietsch, C., Dortch, J., and Caffee, M., 2011, Quantifying the glacial buzzsaw within an arid mountain range: Ladakh, northwestern Himalaya: Geological Society of America Abstracts with Programs, v. 43, no. 5, p. 385 (talk).

Reynhout, S., Owen, L.A., Frankel, K.L., Finkel, R., Dolan, J., and Knott, J., 2009, New rates of Pleistocene slip on the Death Valley fault: Geological Society of America Abstracts with Programs, v. 41, no. 7, p. 228 (talk).

TEACHING EXPERIENCE

- 2017-19 Profesor Auxiliar | Teaching Assistant (Instructor of record), Universidad de Chile
Geomorphology, Field Geology I, Sedimentology, Glacial Geology
- 2008-11, 2014 Teaching Assistant, University of Cincinnati
Introduction to Geology, Environmental Geology, Geology for Engineers and Architects, Field Excursion

RESEARCH EXPERIENCE

- 2020 Researcher (contract), Physicians for Human Rights
Search, classification, and visual reporting of injury prevalence from less-lethal weapons. Medical literature review and data extraction of less-lethal weapon injuries.
- 2015-19 Doctoral Researcher, Universidad de Chile
Geomorphic mapping, dating, and reconstruction of past glacier extent across the region as part of a multinational effort to decipher the patterns and causes of Quaternary climate change in southernmost South America.
- 2015-16 Staff Associate (part-time), Lamont-Doherty Earth Observatory at Columbia University
Isolation of low concentrations of ^{10}Be from whole rock samples: mineral separation and dissolution, column chromatography, sample preparation for AMS analysis, and the management and mitigation of chemical waste.
- 2008-10 Graduate Researcher, University of Cincinnati
Multimethod dating (cosmogenic surface exposure and optically-stimulated luminescence) of Quaternary landforms and surface processes in the Ladakh Himalaya and eastern California.

SERVICE AND OUTREACH

- 2019-20 Miembro, Grupo de Geoética, Sociedad Geológica de Chile

- 2016-19 Profesor Guía | Undergraduate research mentor
Universidad de Chile: Nicolás Campillay, Valeria Zapata, Martín Méndez
Universidad Andrés Bello: Roque Rebolledo
Pontificia Universidad Católica de Chile: Pablo Ugalde
- 2016 Instructor pro bono, Universidad de Chile, GIS and Wine seminar
- 2015-18 Invited speaker and student mentor, Santiago College
- 2011-12 Guide, Sierra Club New York City Inspiring Connections Outdoors

NON-ACADEMIC WORK EXPERIENCE

- 2020 Geotechnical Consultant, XPE Consult
Evaluation of geologic hazard for mining projects in Chile
- 2012-14 Outdoor School Instructor, Recreational Equipment Inc.
Instruction in outdoor skills and wilderness ethics; guided excursions, risk management of large groups in backcountry settings
- 2011 Urban Park Ranger, New York City Department of Parks and Recreation
Impromptu and scheduled outreach programs in urban parks

TEACHING AREAS

Introductory Geology / Environmental Geology, Geomorphology, Sedimentary Geology, GIS/Remote Sensing, Field Methods, Glacial Geology and Glaciology, Paleoclimatology, Tectonics, Hydrogeology

LANGUAGE

English, native (C2); Spanish, fluent (C1)