Richard Selwyn Jones

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Education

Ph.D. Physical Geography, Victoria University of Wellington (New Zealand), 2015.
Thesis title: Late Cenozoic behaviour of two Transantarctic Mountain outlet glaciers.
Advisors: A. Mackintosh, K. Norton, N. Golledge.

M.Sc. Quaternary Science, University of London (UK), 2009. *Distinction*
Thesis title: Reconstructing the form, dynamics and palaeoclimatic significance of an inferred Loch Lomond Stadial glacier in Coire Ardair, Creag Meagaidh, Scotland.

B.Sc. Physical Geography with Environmental Science, University of Gloucestershire (UK), 2008.
First Class with Honours
Dissertation title: The effect of altitude on lichenometry and dendrochronology dating methods at an intra- glacial foreland scale: Tsidjiore Nouve, Valais, Swiss Alps.

Employment (recent)

Durham University

Junior Research Fellow, November 2016 – present.

Victoria University of Wellington, School of Geography, Environment and Earth Sciences

Cosmogenic Nuclide Laboratory Manager, June – October 2016.

Victoria University of Wellington, Antarctic Research Centre

Postdoctoral Research Fellow, June 2015 – June 2016.

Victoria University of Wellington, School of Geography, Environment and Earth Sciences

Teaching Assistant and Lab Coordinator, Ice & Climate, 2014.

Teaching Assistant, Geomorphology, 2014–2015.

Teaching Assistant, Climate Change and New Zealand's Future, 2013–2014.

Lecturer and Teaching Assistant, Applied Geomorphology, 2013.

Field Course Teaching Assistant, Advanced Physical Environmental Processes, 2012–2014.

Field Course Organiser and Teaching Assistant, Field Geomorphology, 2012–2016.

Field & Laboratory Experience

Cosmogenic nuclide sample preparation and geochemistry (Beryllium-10 and Aluminium-26) – Victoria University of Wellington and GNS Science (NZ).

Sampling of nunataks and moraines for surface-exposure dating (3x Antarctic seasons, 1x Greenland season, and New Zealand).

Geomorphological mapping (Scotland, Switzerland, New Zealand, Antarctica).

Sediment coring – Gravity core (NE Greenland).

Sedimentology – Field section descriptions, core logging and grain-size analysis.

Glacier/ice-sheet modelling – 1-d and 3-d (Python; PISM).

Data processing – ArcGIS, MATLAB, GMT.

Publications

Peer-Reviewed Articles

Jones, R.S., Norton, K.P., Mackintosh, A.N., Anderson, J.T.H., Kubik, P., Vockenhuber, C., Wittmann, H., Fink, D., Wilson, G.S., Golledge, N.R., McKay, R. Cosmogenic nuclides constrain surface fluctuations of an East Antarctic outlet glacier since the Pliocene, *Earth and Planetary Science Letters*, 480, 75-86, doi: 10.1016/j.epsl.2017.09.014.

Jones, R.S., Golledge, N.R., Mackintosh, A.N., Norton, K.P. (2016), Past and present dynamics of Skelton Glacier, Transantarctic Mountains, *Antarctic Science*,1-16, doi: 10.1017/S0954102016000195.

R. Selwyn Jones, J. John Lowe, Adrian P. Palmer, Shaun R. Eaves, Nicholas R. Golledge (2017), Dynamics and palaeoclimatic inferences of a Loch Lomond Stadial glacier: Coire Ardair, Creag Meagaidh, Western Highlands, Scotland, *Proceedings of the Geologists' Association*, 128(1), 54-66, doi: 10.1016/j.pgeola.2015.11.004.

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., Kubik, P.W., Christl, M. and Greenwood, S.L. (2015), Rapid Holocene thinning of an East Antarctic outlet glacier driven by marine ice sheet instability, *Nature Communications*, 6:8910, doi: 10.1038/ncomms9910.

Fogwill, C.J., Turney, C.S.M., Golledge, N.R., Rood, D.H., Hippe, K., Wacker, L., Wieler, R., Rainsley E.B., **Jones, R.S.** (2014), Drivers of abrupt Holocene shifts in West Antarctic ice stream direction from combined ice sheet modelling and geologic signatures, *Antarctic Science*, 26(6), 674-686.

Nicholas R. Golledge, Oliver J. Marsh, Wolfgang Rack, David Braaten, **R. Selwyn Jones** (2014), Basal conditions of two Transantarctic Mountain outlet glaciers from observation-constrained diagnostic modelling, *Journal of Glaciology*, 60(223), 855-866.

Mackintosh, Andrew N., Elie Verleyen, Philip E. O'Brien, Duanne A. White, **R. Selwyn Jones**, Robert McKay, Robert Dunbar, Damian B. Gore, David Fink, Alexandra L. Post, Hideki Miura, Amy Leventer, Ian Goodwin, Dominic A. Hodgson, Katherine Lilly, Xavier Crosta, Nicholas R. Golledge, Bernd Wagner, Sonja Berg, Tas van Ommen, Dan Zwartz, Stephen J. Roberts, Wim Vyverman, Guillaume Masse (2014), Retreat history of the East Antarctic Ice Sheet since the Last Glacial Maximum, *Quaternary Science Reviews*, 100, 10-30.

The RAISED Consortium, Michael J. Bentley, Colm Ó Cofaigh, John B. Anderson, Howard Conway, Bethan Davies, Alastair G.C. Graham, Claus-Dieter Hillenbrand, Dominic A. Hodgson, Stewart S.R. Jamieson, Robert D. Larter, Andrew Mackintosh, James A. Smith, Elie Verleyen, Robert P. Ackert, Philip J. Bart, Sonja Berg, Daniel Brunstein, Miquel Canals, Eric A. Colhoun, Xavier Crosta, William A. Dickens, Eugene Domack, Julian A. Dowdeswell, Robert Dunbar, Werner Ehrmann, Jeffrey Evans, Vincent Favier, David Fink, Christopher J. Fogwill, Neil F. Glasser, Karsten Gohl, Nicholas R. Golledge, Ian Goodwin, Damian B. Gore, Sarah L. Greenwood, Brenda L. Hall, Kevin Hall, David W. Hedding, Andrew S. Hein, Emma P. Hocking, Martin Jakobsson, Joanne S. Johnson, Vincent Jomelli, **R. Selwyn Jones**, Johann P. Klages, Yngve Kristoffersen, Gerhard Kuhn, Amy Leventer, Kathy Licht, Katherine Lilly, Julia Lindow, Stephen J. Livingstone, Guillaume Mass, Matt S. McGlone, Robert M. McKay, Martin Melles, Hideki Miura, Robert Mulvaney, Werner Nel, Frank O. Nitsche, Philip E. O'Brien, Alexandra L. Post, Stephen J. Roberts, Krystyna M. Saunders, Patricia M. Selkirk, Alexander R. Simms, Cornelia Spiegel, Travis D. Stolldorf, David E. Sugden, Nathalie van der Putten, Tas van Ommen, Deborah Verfaillie, Wim Vyverman, Bernd Wagner, Duanne A. White, Alexandra E. Witus, Dan Zwartz (2014), A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum, *Quaternary Science Reviews*, 100, 1-9.

Conferences, Symposiums & Workshops

Jones, R.S., Norton, K.P., Mackintosh, A.N., Anderson, J.T.H., Kubik, P., Vockenhuber, C., Wittmann, H., Wilson, G.S., Golledge, N.R., McKay, R., Dynamic fluctuations of an East Antarctic outlet glacier since the Pliocene. **Past Antarctic Ice Sheet Dynamics meeting**, Trieste, Italy, September 2017 (poster).

Jones, R.S., Pre-historical East Antarctic ice sheet variability. **Durham University**, Durham, UK, November 2016 (talk).

Jones, R.S., Norton, K.P., Mackintosh, A.N., Anderson, J.T.H., Kubik, P., Vockenhuber, C., Wittmann,

H., Wilson, G.S., Golledge, N.R., McKay, R., Dynamic fluctuations of an East Antarctic outlet glacier since the Pliocene. **AGU**, San Francisco, USA, December 2016 (poster).

Jones, R.S., Norton, K.P., Golledge, N.R., Mackintosh, A.N., Anderson, J.T.H., McKay, R., Dynamic fluctuations of an East Antarctic outlet glacier since the Pliocene. **PALSEA2** workshop, Mt Hood, USA, August 2016 (poster).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., Rapid thinning of an East Antarctic outlet glacier during Holocene climate stability. **Geosciences NZ**, Wellington, New Zealand, November 2015 (talk).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Rapid thinning of an East Antarctic outlet glacier during Holocene climate stability. **Korean Polar Research Institute**, Incheon, South Korea, August 2015 (*guest* talk).

Jones, R.S., Golledge, N.R., Norton, K.P., Mackintosh, A.N. Palaeo-dynamics of Transantarctic Mountain outlet glaciers from geomorphology and flowline modelling. International Union for Quaternary Research **(INQUA)** Congress, Nagoya, Japan, July–August 2015 (poster).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., Rapid thinning of an East Antarctic outlet glacier during Holocene climate stability. International Union for Quaternary Research (**INQUA**) Congress, Nagoya, Japan, July–August 2015 (talk).

Jones, R.S., Mackintosh, A.N., Golledge, N.R., Norton, K.P., Holocene deglaciation of Antarctica: Steady or rapid? **PALSEA2** workshop, Tokyo, Japan, July 2015 (talk).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., Rapid thinning of an East Antarctic outlet glacier during Holocene climate stability. American Geophysical Union (**AGU**), San Francisco, USA, December 2014 (poster).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., Glacial history and behaviour of Mackay Glacier, Transantarctic Mountains: Rapid thinning during Holocene climate stability. Scientific Committee on Antarctic Research (**SCAR**) Open Science Conference, Auckland, New Zealand, August 2014 (poster).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Rapid thinning of an East Antarctic outlet glacier during Holocene climate stability. **Snow and Ice Research Group**, Mt Cook, New Zealand, July 2014 (talk).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., Glacial history and behaviour of Mackay Glacier, Transantarctic Mountains: Rapid thinning during Holocene climate stability. European Geosciences Union (**EGU**) General Assembly, Viena, Austria, April–May 2014 (poster).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., Glacial history and behaviour of Mackay Glacier, Transantarctic Mountains. **Strategic Science in Antarctica**, Hobart, Australia, June 2013 (poster).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., The glaciology of a Transantarctic Mountains outlet glacier – implications for cosmogenic nuclide dating. **Joint Antarctic Research Institute – Past Antarctic Climate** Symposium, GNS Science Lower Hutt, New Zealand, February 2013 (talk).

Jones, R.S., Mackintosh, A.N., Norton, K.P., Golledge, N.R., Fogwill, C.J., The glaciology of a Transantarctic Mountains outlet glacier – implications for cosmogenic nuclide dating. **Snow and Ice Research Group**, Dunedin, New Zealand, February 2013 (talk).

Honours & Awards

President's Award for Best Doctoral Thesis, New Zealand Geographical Society, 2016.

International Junior Research Fellowship (Marie Sklodowska-Curie cofunded by Durham University), 2016.

Faculty Strategic Research Grant (Victoria University of Wellington), 'Establishing the capability of measuring cosmogenic ^{10}Be in Antarctic sediment cores' (Co-PI), NZ$6,000, 2015.

New Zealand Antarctic Research Institute, 'Constraining Antarctica's contribution to past global sea level rise in Northern Victoria Land and the western Ross Sea' (Co-PI), NZ$100,000, 2015.

Antarctic Research Endowed Development Fund (VUW), NZ$3000, 2015.

Victoria Doctoral Submission Scholarship, Victoria University of Wellington, 2014.

Antarctic Science Bursary, 'Dynamics of outlet glaciers in the Transantarctic Mountains since the Last Glacial Maximum' (PI), £5000, 2013.

Antarctic Research Endowed Development Fund (VUW), NZ$3500, 2013.

School of Geography, Environment and Earth Sciences (VUW), 'Glacial history and behaviour of outlet glaciers in the Transantarctic Mountains since the Last Glacial Maximum' (PI), NZ$4000, 2013.

International Doctoral Research Scholarship, Victoria University of Wellington, 2011–2014.

RGS Alfred Steers Essay Prize, for the best undergraduate dissertation in a UK geography department (Special Commendation), 2008.

Students' Union Best Society Leader, University of Gloucestershire, 2008.

Professional Activities

Co-organiser, Ice Sheet & Sea Level reading group, Durham University (2016 to present).

Member, American Geophysical Union (2014 to present).

Member, European Geosciences Union (2014 to present).

Co-organiser, Palaeo-group, Victoria University of Wellington (2013 to 2015).

Co-founder and Editor, Climatica.org.uk (2013 to present).

Member, International Glaciological Society (2012 to present).

Member, Quaternary Research Association (2007 to present).

Journal papers reviewed: 5 (incl. EPSL, JQS, Antarctic Science).

Outreach & Communication

Co-founder of *Climatica*, a climate science-public interaction website, in affiliation with The Geological Society, Quaternary Research Association and the World Bank's Connect4Climate initiative.

Blog about my research activities and topical climate and Antarctic news (*Terra Transcriber*).

Produce short videos to help communicate my research (e.g. 'Antarctica - Office of Ice & Rock', Vimeo).

Science reviewer for the EGU's Planet Press educational project.

Last updated: November 8, 2017