

# Richard Selwyn Jones

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## RECENT EMPLOYMENT

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Nov 2016 – present	<b>Junior Research Fellow, Durham University.</b>
June – Oct 2016	<b>Cosmogenic Nuclide Laboratory Manager, Victoria University of Wellington.</b>
June 2015 – June 2016	<b>Postdoctoral Research Fellow, Victoria University of Wellington.</b>

## QUALIFICATIONS

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**Ph.D. Physical Geography, Victoria University of Wellington (New Zealand), 2015.**

Thesis title: Late Cenozoic behaviour of two Transantarctic Mountain outlet glaciers.

Advisors: Prof. Andrew Mackintosh, Dr Kevin Norton, Dr Nicholas Golledge.

**M.Sc. Quaternary Science, University of London, 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, 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.

## PUBLICATIONS

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### In Review/Revision:

- **Jones, R.S.**, Whitehouse, P.L., Bentley, M.J., Small, D., Dalton, A. Impact of glacial isostatic adjustment on surface-exposure dating, *Quaternary Science Reviews*.
- **Jones, R.S.**, Small, D., Cahill, N., Bentley, M.J., Whitehouse, P.L. iceTEA: Tools for plotting and analysing cosmogenic-nuclide surface-exposure data from former ice margins, *Quaternary Geochronology*.
- Small, D., Bentley, M.J., **Jones, R.S.**, Pittard, M.L., Whitehouse, P.L. Constraining Antarctic thinning rates from vertical transects of cosmogenic exposure ages, *Quaternary Science Reviews*.
- Lowry, D.P., Golledge, N.R., Bertler, N.A.N., **Jones, R.S.**, McKay, R. Deglacial grounding line retreat in the Ross Embayment, Antarctica, controlled by ocean forcing, *Science Advances*.

### Published:

- Eaves, S.R., Collins, J.A., **Jones, R.S.**, Norton, K.P., Tims, S.G., Mackintosh, A.N. (2018). Further constraint on the in situ cosmogenic <sup>10</sup>Be production rate in pyroxene and a viability test for late Quaternary exposure dating, *Quaternary Geochronology*, 48, 121-132.
- **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., 2017. Cosmogenic nuclides constrain surface fluctuations of an East Antarctic outlet glacier since the Pliocene, *Earth and Planetary Science Letters*, 480, 75-86.

- **Jones, R.S.**, Lowe, J.J., Palmer, A.P., Eaves, S.R., Golledge, N.R., 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.
- **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.
- **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.
- 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.
- Golledge, N.R., Marsh, O.J., Rack, W., Braaten, D., & **Jones, R.S.**, 2014. Basal conditions of two Transantarctic Mountains outlet glaciers from observation-constrained diagnostic modelling. *Journal of Glaciology*, 60(223), 855-866.
- Mackintosh, A.N., Verleyen, E., O'Brien, P., White, D., McKay, R., Gore, D.B., Dunbar, R., Fink, D., **Jones, R.S.**, Post, A.L., Miura, H., Leventer, A., Goodwin, I., Lilly, K., Crosta, X., Golledge, N., Wagner, B., Berg, S., van Ommen, T., Zwart, D., Hodgson, D.A., Roberts, S.J., Vyverman, W., Massé, G., 2014. Retreat history of the East Antarctic Ice Sheet since the last glacial maximum, *Quaternary Science Reviews*, 100, 10-30.
- The RAISED Consortium, Bentley, M.J., O'Cofaigh, C., Anderson, J.B., Conway, H., Davies, B., Graham, A.G.C., Hillenbrand, C.D., Hodgson, D.A., Jamieson, S.S.R., Larter, R.D., Mackintosh, A., Smith, J.A., Verleyen, E., Ackert, R.P., Bart, P.J., Berg, S., Brunstein, D., Canals, M., Colhoun, E.A., Crosta, X., Dickens, W.A., Domack, E., Dowdeswell, J.A., Dunbar, R., Ehrmann, W., Evans, J., Favier, V., Fink, D., Fogwill, C.J., Glasser, N.F., Gohl, K., Golledge, N.R., Goodwin, I., Gore, D.B., Greenwood, S.L., Hall, B.L., Hall, K., Hedding, D.W., Hein, A.S., Hocking, E. P., Jakobsson, M., Johnson, J.S., Jomelli, V., **Jones, R.S.**, Klages, J.P., Kristoffersen, Y., Kuhn, G., Leventer, A., Licht, K., Lilly, K., Lindow, J., Livingstone, S.J., Massé, G., McGlone, M.S., McKay, R.M., Melles, M., Miura, H., Mulvaney, R., Nel, W., Nitsche, F.O., O'Brien, P.E., Post, A.L., Roberts, S.J., Saunders, K.M., Selkirk, P.M., Simms, A.R., Spiegel, C., Stollendorf, T.D., Sugden, D.E., van der Putten, N., van Ommen, T., Verfaillie, D., Vyverman, W., Wagner, B., White, D.A., Witus, A.E., and Zwart, D., 2014. A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum, *Quaternary Science Reviews*, 100, 1-9.

## FUNDING

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- International Junior Research Fellowship (Marie Skłodowska-Curie cofunded by Durham University), 2016. Value: Three-year salary plus €21,000 research costs.
- Principal Investigator – 'iceTEA: a website analysing the past behaviour of glaciers and ice sheets', Quaternary Research Association Outreach Fund, 2018. Value: £900.
- Principal Investigator – 'iceTEA: Tools for analysing cosmogenic nuclide data from ice margins', Research Development Fund (Durham University), 2017. Value: £1980.
- Associate Investigator/Co-Investigator – 'Potential for non-linear, threshold-driven response of Antarctic outlet glaciers; insights from David Glacier, Antarctica', New Zealand Antarctic Research Institute, 2017. Value: NZ\$115,000.
- Principal Investigator (Co) – 'Establishing the capability of measuring cosmogenic <sup>10</sup>Be in Antarctic sediment cores', Faculty Strategic Research Grant (Victoria University of Wellington), 2015. Value: NZ\$6,000.

- Principal Investigator (Co) – ‘Constraining Antarctica's contribution to past global sea level rise in Northern Victoria Land and the western Ross Sea’, New Zealand Antarctic Research Institute, 2015. Value: NZ\$100,000.
- Antarctic Research Endowed Development Fund (VUW), 2015, Value: NZ\$3000. *Travel to PALSEA2 meeting and INQUA conference in Japan.*
- Victoria Doctoral Submission Scholarship, Victoria University of Wellington, 2014. *Fees and stipend.*
- Principal Investigator – ‘Dynamics of outlet glaciers in the Transantarctic Mountains since the Last Glacial Maximum’, Antarctic Science Bursary, 2013. Value: £5000.
- Antarctic Research Endowed Development Fund (VUW), 2013. Value: NZ\$3500. *Laboratory and AMS costs.*
- Principal Investigator – ‘Glacial history and behaviour of outlet glaciers in the Transantarctic Mountains since the Last Glacial Maximum’, School of Geography, Environment and Earth Sciences (VUW), 2013. Value: NZ\$4000.
- International Doctoral Research Scholarship, Victoria University of Wellington, 2011–2014. *Fees and stipend.*

## TEACHING EXPERIENCE

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### **Royal Holloway University of London, Department of Geography**

- Leader and Lecturer (invited) of course on the Quaternary Science M.Sc., Glaciers in the Climate System, March–May 2018.

### **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.

## HONOURS & AWARDS

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- President's Award for Best Doctoral Thesis, New Zealand Geographical Society, 2016.
- Special Commendation for undergraduate dissertation (Alfred Steers Prize), Royal Geographical Society, 2008.

## PEER RECOGNITION & PROFESSIONAL ACTIVITIES

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- Reviewer for: National Science Foundation; and the journals *Geology*, *Earth and Planetary Science Letters*, *Quaternary Science Reviews*, *Journal of Quaternary Science*, *Antarctic Science*.
- Conference organising committee: IGS International Symposium on ‘The Cryosphere in a Changing Climate’, Wellington, New Zealand, 2017; UK Antarctic Science Conference, Durham, 2018.
- Guest speaker: Korean Polar Research Institute (KOPRI), August, 2015.
- Session convener: European Geoscience Union General Assembly, 2014.

## FIELD, LABORATORY & MODELLING EXPERIENCE

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- Cosmogenic nuclide sample preparation and geochemistry (beryllium-10 and aluminium-26; in-situ and meteoric).
- 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.
- Ice-flow modelling – 1-d, 2-d and 3-d (including PISM and Úa).
- Data processing – MATLAB, ArcGIS, Generic Mapping Tools.

## MEMBERSHIPS

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Fellow, Royal Geographical Society (2018 to present).

Member, American Geophysical Union (2014 to present).

Member, European Geosciences Union (2014 to present).

Member, International Glaciological Society (2012 to present).

Member, Quaternary Research Association (2007 to present).

## OUTREACH & COMMUNICATION

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- Co-founder of Climatica ([climatica.org.uk](http://climatica.org.uk)), 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; [theterratranscriber.wordpress.com](http://theterratranscriber.wordpress.com)).
- Produce short videos to help communicate my research (e.g. 'Antarctica - Office of Ice & Rock', see [vimeo.com/selwynox](http://vimeo.com/selwynox)).
- Science reviewer for the EGU's Planet Press educational project ([www.egu.eu/education/planet-press](http://www.egu.eu/education/planet-press)).

## REFERENCES

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Details available on request.