

Geraint Thomas-Howard Jenkins (BSc, HONs, FGS, FRGS)

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Profile

I am a motivated individual who enjoys working in order to achieve specifically set targets in both personal and academic environments. I enjoy undertaking critical analysis of natural environments so as to aid in the understanding of physical processes and behaviours occurring; this allows me to display my ability to work within a group as well as individually in order to achieve the best outcome.

Academic Information

Durham University (Ustinov College) Quaternary Environmental Change Research Cluster

(MSc) Geophysical investigation of palaeo-ice stream bedforms (Dr Chris Stokes)

Currently undertaking

Aberystwyth University

(BSc) Physical Geography and Earth Science

First-class degree

Academic Publications

3. **Jenkins, G. T. H.** (In prep) 'Palaeoenvironmental depositional interpretation and chronological constraint through optically stimulated luminescence of a glaciofluvial deposit associated with Irish Sea ice stream sedimentation, Cardigan, Wales, UK.'
2. **Jenkins, G. T. H.** and Harvey, W. J. (In prep) 'Quaternary palaeoglaciological and palaeoenvironmental change, Shropshire, UK; a review.' *Proceedings of the Shropshire Geological Society*.
1. **Jenkins, G. T. H.** and Holt, T. (2012) 'A review of the creation of glacial erosional striae and their significance in Shropshire.' *Proceedings of the Shropshire Geological Society*, **17**, 17 – 21.

Grants, Bursaries & Awards

6. W C Bradley Dissertation Prize in Geomorphology, 2013, IGES, Aberystwyth University
5. Faculty of Science Walter Idris Jones Bursary, 2012, IGES, Centre for Glaciology (£ 800)
4. Travel Award Scholarship, 2012, IGES, Aberystwyth University (£ 50)
3. Margaret and Elwyn Davies Travel Award, 2011, IGES, Aberystwyth University (£ 50)
2. Aberystwyth Bursary, 2010 – 2013, Aberystwyth University (£ 1,800)
1. Welsh Assembly Learning Grant, 2010 – 2013, Aberystwyth University (£ 7,549)

Academic Achievements

- Mentorship position for the Association of Polar Early Career Scientists (May, 2013 – present)
- Palaeoglaciological Field-Assistant, Lake Wakatipu, New Zealand, Centre for Glaciology (Declined due to academic commitments)
- Optically Stimulated Luminescence dating techniques used during undergraduate research project with Aberystwyth Luminescence Research Laboratory (funded by University department (~ £ 2,200))
- Field Assistant, British Geological Survey, 2012 (Declined due to academic commitments)
- Masters by Research awarded with Dr Chris Stokes, based on a submitted research proposal to Durham University (Russell Group University) Quaternary Environmental Change Research Cluster
- Undergraduate dissertation nominated for the QRA dissertation prize (2013)
- Second highest undergraduate degree grade in Physical Geography, Aberystwyth University
- Awarded 2 MSc scholarships (~ £3,000) at Aberystwyth University Centre for Glaciology (declined due to undertaking MSc study at Durham University)

Professional Membership

- Elected Fellow of The Geological Society of London
- Elected Fellow of The Royal Geographical Society
- International Glaciological Society
- Glacial Landsystems Working Group

- ♦ Quaternary Research Association
- ♦ Association of Polar Early Career Scientists
- ♦ British Society for Geomorphology
- ♦ British Sedimentological Research Group
- ♦ Open University Geological Society
- ♦ Herefordshire & Worcestershire Earth Heritage Trust
- ♦ South Wales Geologist Association
- ♦ West Wales Geological Society
- ♦ Warwickshire Geological Conservation Group
- ♦ Shropshire Geological Society
- ♦ Royal Society for the Protection of Birds

Field Experience

Location: Ennerdale, Loch Duich and Glen Roy, Scotland, UK.

Date: May 2011 – June 2011

Purpose: Igneous, metamorphic, sedimentary and mineral identification

Location: Malvern Hills, Worcester, UK.

Date: June 2011 – August 2011

Purpose: Cataloguing geological properties and features of exposures and obtaining material for thin-section, display and educational purposes

Location: Cardigan, Wales, UK.

Date: May 2012

Purpose: Investigation of chronology and sedimentation process associated with Irish Sea ice stream retreat

Location: New Zealand, South Island.

Date: April 2012 – May 2012

Purpose: Investigation of glaciological conditions of Fox, Franz Josef, Hooker, Mueller and Tasman Glaciers. Analysis of sedimentological process and flow dynamics associated with the Rees and Dart Rivers.

Location: Cadair Idris (Cwm Cau), Wales, UK.

Date: March 2013

Purpose: Investigation of subglacial bedforms and palaeoglaciology to establish process glaciological parameters for a Loch Lomond Stadial ice mass.

Location: Snowdon, Wales, UK.

Date: April 2013

Purpose: Geomorphological mapping so as to interpret potential extents of Loch Lomond Stadial and Last Glacial Maximum ice masses

Location: Brecon Beacons, Wales, UK.

Dates: May 2013 – July 2013

Purpose: Mapping of geomorphology so as to infer palaeoenvironmental and palaeoglaciological characteristics

Location: Tergaron Bog (Cors Caron), Wales, UK.

Dates: July 2013

Purpose: Ground penetrating radar (GPR) investigation of cors stratigraphy in association with Cardiff University and TerraSat (private geophysical surveying company)

Location: Cardigan & North Pembroke, Wales, UK.

Dates: August 2013

Purpose: Luminescence sampling of glaciofluvial material for the BRITICE project in association with Bangor & Liverpool University

Location: Durham, Yorkshire & Northumbria, England, UK.

Dates: September 2013

Purpose: QRA field meeting considering glacial sediment exposures and potential palaeoglaciological characteristics

Location: Shropshire, England, UK.

Dates: October 2013

Purpose: Glacial Landsystem Working Group field meeting which considered sediment exposures and geomorphology of Shropshire so as to infer potential palaeoenvironments

Work Experience

Institution: Centre for Glaciology, IGES, Aberystwyth University

Position: Research Assistant (Internship)

Dates: June 2013 – September 2013

Functions: Reconstruction of former glacier extents in Mars' mid-latitudes. Investigating sonic borehole logs of the NEEM deep borehole, Greenland. Comparison of isotopic data with optical televiewer logs of ice facies comprising an ice shelf in East Antarctica in association with Professor Bryn Hubbard.

Institution: Centre for Glaciology, IGES, Aberystwyth University

Position: Research Assistant

Dates: August 2012 – September 2012

Functions: Palaeoglaciological mapping of the Lake Wakatipu Basin, New Zealand in conjunction with Dr Simon Cook (Manchester Metropolitan University; work to be submitted to *Journal of Maps*, 2013). Analysis of Svalbard glacier surface roughness with Dr Tristram-Irvine Fynn, with contributions to be acknowledged during submission of this work to *Geografiska Annaler: Series A*.

Institution: National Museum of Wales Cardiff, Geology Department

Position: Laboratory Assistant

Dates: August 2011 – September 2011

Functions: Changing of seismographs on a weekly basis and interpreting readings, using XRD with Dr Jana Horak to distinguish mineral composition of Lapis Lazuli specimens in order to identify provenance and cataloguing Breconshire and Powis rock and mineral collections for display. SEM analysis of sediment samples was also undertaken alongside Dr Jana Horak.

Institution: Herefordshire and Worcestershire Earth Heritage Trust, Worcester University

Position: Field Assistant

Dates: June 2011 – August 2011

Functions: Cataloguing geological properties and features of exposures across the Abberley and Malvern Hills Geopark and contributing to geoconservation publications, including geological trail guides and geological information leaflets. Collecting material for thin-section analysis, display and educational presentations of the Trust.

Research Interests

- ♦ Palaeo-ice stream and ice sheet sedimentation
- ♦ Internal composition of palaeo-ice stream bedforms (drumlins)
- ♦ Inferring potential ice mass dynamics from the sedimentary record
- ♦ Palaeoglaciology of Otago, New Zealand south Island
- ♦ Sedimentation processes and chronology of the Irish Sea ice stream, UK
- ♦ Geomorphology of the Brecon Beacons, south Wales
- ♦ Palaeoglaciology of Shropshire, United Kingdom

Personal Interests and Achievements

I have maintained my physical fitness alongside academic studies with personal satisfaction gained through the captaincy of Abertillery F.C. over a 3 year period. With this the opportunity to coach younger children was available which allowed me to gain skills that make me more approachable in numerous situations. Alongside this, I was personally nominated for professional trials with Cardiff City FC (aged 16) with a position declined due to transport and academic constraints. My personal interests include studying physical sciences, specifically areas concerning palaeoglaciology and environmental change with travel allowing me to broaden my views on the diverse environments which exist. Alongside sporting activities such as swimming, running, fishing and hiking, I also have a personal interest in environmental conservation and environmental research and have donated (£ 400 at present) to organisations such as the RSPB, Wildlife Trusts and WWT (to become a Patron of the WWT and life fellow of the RSPB, September 2013 & have become a Campaign Champion for the RSPB (June 2013 – present)).