

Ed Holt

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PROFILE

Published researcher with experience in geospatial analysis and remote sensing (Python & QGIS). I hold an M.Res in Environmental Geoscience (Distinction) and am passionate about effective and accessible data visualisation. I pride myself on my attention to detail and ability to explain spatial analysis clearly. I wish to secure a position that will allow me to apply and develop my data analysis and GIS skills.

RELEVANT SKILLS

- **Core competencies:** Geospatial analysis with QGIS & Python (geopandas, xarray), MS Office
- **Currently learning:** Web-development (HTML, CSS, JS), Inkscape
- **Familiar with:** ESRI ArcGIS, SQL & R

CARTOGRAPHY PORTFOLIO

cartography.studio — portfolio of maps produced using QGIS and Python (matplotlib, cartopy) for research publications and the [#30DayMapChallenge](#).

EDUCATION

PhD Candidate Edinburgh, UK
University of Edinburgh, SENSE CDT 2021 — 2025

- Performed three years of study before exiting the program to pursue career outside research
- Project: *Investigating the potential collapse of the Greenland Ice Sheet's land-terminating margin*
- Published research in the Journal of Glaciology
- Trained in Python, optical imagery, image classification, LiDAR, radar altimetry, synthetic aperture radar and machine learning methods
- Participated in three international workshops: Machine Learning in Glaciology (University of Bergen); ESA Science Hub (European Space Research Institute); 13th ESA Land Remote Sensing Advanced Course (University of Innsbruck)

MRes Environmental Geoscience (Distinction) Newcastle, UK
Newcastle University 2020 — 2021

- Thesis: *Controls on terminus position and ice dynamics in south-eastern Greenland*
- Relevant modules: Theory & Application in GIS (ArcMap); Data Preparation, Analysis & Interpretation (R)

BSc Hons Geography (First Class) Brighton, UK
University of Sussex 2017 — 2020

- Dissertation: *Impacts of Pleistocene glaciations on Chalkland valley systems*
- Relevant modules: Geographical Information Systems (ArcMap); Quantitative & Analytical Skills

AWARDS

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| • Best Performance MRes Environmental Geoscience | Newcastle University — 2021 |
| • MacQuitty Prize (highest performing undergraduate) | University of Sussex — 2020 |
| • Geography Thesis Prize | University of Sussex — 2020 |

PUBLICATIONS

Holt, E., Nienow, P., & Medina-Lopez, E. (2024). *Terminus thinning drives recent acceleration of a Greenlandic lake-terminating outlet glacier*. Journal of Glaciology, 70, eg. [doi:10.1017/jog.2024.30](https://doi.org/10.1017/jog.2024.30)

EXPERIENCE

Web Developer Freelance / Volunteer	2025 — Present Edinburgh, UK
• Built responsive websites for two small businesses using 11ty, HTML, CSS and JavaScript	
Marking Assistant Newcastle University — School of Geography, Politics, and Sociology	2020 — 2021 Newcastle, UK
• Assessed undergraduate assignments and provided feedback for Physical Geography BSc students	
Research Assistant (GIS) University of Sussex — Institute of Development Studies	2019 Brighton, UK
• Processed and cleaned spatial datasets in ArcMap for the EARF Urban Land Nexus project	
Mechanic & Sales Assistant Freedom Bikes — a small independent bike shop with a loyal customer base	2018 — 2019 Brighton, UK
• Served and advised customers; conducted repairs and documented work completed	
Project Manager & Instructor Cycle Training UK — a workers' co-operative and the UK's leading provider of cycle training	2015 — 2017 London, UK
• Managed contract reporting and invoicing for Transport for London cycle training projects	
• Delivered cycle training in schools and one-to-one with adults	
• Taught bicycle maintenance to individuals and groups	
Freelance Instructor & Mechanic Bikeworks CIC — award-winning social enterprise widening access to physical activity Sustrans — (Walk Wheel Cycle Trust) is a leading UK sustainable transport charity Bike for Life CIC — an independent maintenance and cycle training provider	2015 — 2018 London, UK London, UK Brighton, UK
• Ran cycle training sessions at schools, community events and, inclusive cycling projects	
• Led pop-up bicycle repair stands at workplaces and public events	
• Delivered an active travel project in the London Borough of Redbridge	
• Led regular after-school cycling clubs and community bicycle maintenance sessions	
Catastrophe Analyst Chaucer — a Lloyd's of London syndicate providing across-class (re)insurance	2013 — 2015 & 2009 — 2011 London, UK
• Input data and ran risk models to support Underwriters in contract quotation	
• Modelled the North American Treaty portfolio's risk exposure to natural disasters	
• Tested and evaluated new risk management software before its adoption	
Catastrophe Analyst Beazley — an international specialty (re)insurance provider.	2012 — 2013 London, UK
• Duties as per my role at Chaucer	