

Ella Gilbert

CLIMATE MODELLER · ATMOSPHERIC PHYSICIST · SCIENCE COMMUNICATOR

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Key skills & competencies

Research	Experienced researcher in academic, charity & media settings. Strong academic background (BSc, MSc, PhD).
Communication	Published in multiple platforms (e.g. academic journals, specialist publications, mainstream media)
Public speaking	Comfortable addressing diverse audiences (e.g. academic, media, schools, public).
Teamwork	Able to work collaboratively in stressful environments, e.g. polar fieldwork, bars & hospitality, sports clubs. Collaboration with scientists at other institutions nationally & internationally.

Employment & Experience

Science & Research

Research scientist

London

BRITISH ANTARCTIC SURVEY

August-October 2020

Using state-of-the-art high resolution regional model simulations of historical and future Antarctic surface mass balance (SMB). The project is a pilot study examining the sensitivity of Antarctic Ice Sheet to future climate change under two warming scenarios.

Scientific researcher

London

BE ZERO

August 2020-present

Scientific researcher for a decarbonisation company. Provide scientific advice on the company's decarbonisation strategies, conduct literature reviews, compile reports and am developing a first-of-its-kind, scientifically rigorous proprietary method to quantify the environmental integrity of various carbon offset products.

Environmental sciences manuscript editor

Remote

CACTUS EDITING SERVICES (EDITAGE)

2015-2019

Manuscript editor for an international editing company for scientific journal submissions. Involved formatting and editing manuscript text for scientific content, grammar and style, preparing articles for submission, writing cover letters, and providing feedback to authors.

Researcher

London

GREENPEACE

2014

Worked on undercover operations for the political desk, compiling reports and analysis. Also researched for the Energy desk, producing reports about fossil fuel infrastructure and associated greenhouse gas emissions.

Media, Film & Television

Researcher

London

SPANNER FILMS

October 2019-present

Worked on Spanner Films' latest feature-length film about achieving Net zero emissions in the UK by 2030, starring Jonathan Pie, directed by Franny Armstrong. Currently postponed due to COVID-19.

Speaker and presenter

Freelance

FREELANCE

2017 - present

- Present and speak about science and environmental issues in schools and other organisations. Recent examples include Friends of the Earth's Groundswell event, Shrewsbury school, a design industry 'Climate Dine With Me' event and the Natural History Museum.
- Present and produce podcast and short films about polar research, climate change and Antarctica, including short film for the British Antarctic Survey about airborne atmospheric science.
- As a STEM Ambassador, encourage young people to get involved in STEM subjects through talks, workshops and activities.
- Have appeared in print, online, and on TV and radio discussing science, including BBC R4's PM programme, Al Jazeera English TV news, BBC TV News channel, BBC and ABC Naked Scientists and BBC Radio Cambridgeshire.
- Have featured in films, including Empiribox 'Women in Science' series, Wiley 'Inspiring Minds' series, Vice online coverage, and 'The Fight' on Zeal Magazine.

Writer/editor

London

FREELANCE

2014-present

- At Research Features magazine, wrote feature articles about researchers' work. Involved communicating complex scientific information in a clear, precise and understandable way.
- At The Canary, wrote and edited articles about science, technology and environment.
- Have also written articles for specialist audiences like the IAMAS internal communications, EGU Cryoblog, and mainstream media outlets like the Independent and Morning Star.

Global/Managing Editor

Norwich

CONCRETE, UEA'S STUDENT NEWSPAPER

2013 - 2015

Originally the editor of the international section of the student newspaper, before moving into a more senior role. Responsible for commissioning articles, proofing, editing and typesetting the newspaper, as well as having overall editorial oversight.

Leadership & Management

Bar Manager

Norwich

OPEN YOUTH TRUST

2012 - 2015

Bartender and manager in one of the busiest venues in the city. Responsible for ordering, stock taking and licensing at a bar that could take up to £21,000 in sales per night. Line-managed 30 permanent members of staff, and up to 20 additional members of agency staff.

Education

Atmospheric drivers of surface melting of the Larsen C ice shelf, Antarctica, PhD

Cambridge, UK

BRITISH ANTARCTIC SURVEY/UNIVERSITY OF EAST ANGLIA

2016-2020

My PhD research concerns the atmospheric processes that control surface melting on the Larsen C ice shelf on the Antarctic Peninsula. Particularly, I quantified the effect of foehn winds, cloud microphysics (especially cloud phase of mixed-phase clouds) and large-scale meteorology on the surface energy balance of the ice shelf. I used a high-resolution, dynamically downscaled regional configuration of the Met Office Unified Model to examine these parameters, and compared its output with aircraft data from atmospheric measurement campaigns, automatic weather stations and satellites. In addition to subject-specific knowledge, I developed skills in academic writing, computer programming (Python, shell scripting and familiarity with Fortran90), communicating complex science to diverse audiences (including children, policy-makers, scientists and members of the public), problem-solving and effective research. I regularly gave talks at public events and schools, and present films about scientific concepts, all of which I continue to do.

- Supervision: Dr. Andrew Orr, Prof. John King, Dr. Tom Lachlan-Cope (BAS) and Prof. Ian Renfrew (UEA).
- Key areas of study/skills: High resolution (NWP scale) regional climate modelling with the UK Met Office Unified model, computer programming (mainly Python, with some shell scripting and Fortran), academic writing for publication, presentation skills, science communication, independent research, polar fieldwork.

Climate Change, MSc (distinction)

Norwich, UK

UNIVERSITY OF EAST ANGLIA

2014-2015

- Dissertation: "Climatological drivers of Antarctic temperature and circulation changes since 1957".
- Key areas of study/skills: Antarctic and polar climate, programming and mathematical modelling (Matlab), clumped isotope paleothermometry, statistics (inc. SPSS), energy and climate change (especially aviation and shipping), atmospheric chemistry.

Environmental Geography and International Development, BSc (starred first class)

Norwich, UK

UNIVERSITY OF EAST ANGLIA

2011-2014

- Dissertation: "Renewable electrification of the slums".
- Key areas of study/skills: Meteorology, maths and statistics, natural resources in development contexts, low carbon energy, sustainability, climate policy, paleoclimatology, earth systems science, spreadsheet modelling, sensitivity analysis.

References

Dr. Andrew Orr
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Prof. John King
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Dr. Tom Lachlan-Cope
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Prof. Ian Renfrew
Professor, UEA (ENV)
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