

Education

- **Ph.D.:** University of Birmingham/British Antarctic Survey, *Birmingham/ Cambridge, UK* (2015- March 2019) Polar Biology. Supervisor: Dr. Scott Hayward/ Prof. Pete Convey. Thesis: *Ecophysiology and ecological impacts of Eretmoptera murphyi*.
- **M.Sc.:** University of Sheffield, *Sheffield, UK* (2014) Polar and Alpine Change. Supervisor: Prof. Andrew Hodson. Thesis: *Influence of Tardigrades on supra-glacial carbon cycling*.
- **B.Sc. (Hons):** University of Nottingham, *Nottingham, UK* (2011). Zoology. Supervisor Prof. Francis Gilbert. Thesis: *Below ground insect herbivory and overwintering communities in the common Hogweed, Heracleum sphondylium*
- **HNC:** Falmouth University/University of Exeter, UK (2003) Journalism.

Employment History

- Supervising Researcher/Field Lead: **Norwegian Institute of Nature Research**, Terrestrial Ecology. Trondheim, Norway (July- Sept: 2013, 2015, 2018)
- Research Assistant: **Norwegian Institute of Nature Research**, Terrestrial Ecology. Trondheim, Norway (July- Sept: 2012)
- Research Assistant: **Peak District National Park/Moors for the Future**, Science Team/Landscape Ecology. Edale, Derbyshire, UK. (Oct 2013 – Nov 2014)

Publications and Selected Conference Presentations

- **Bartlett JC**, Convey P, Hayward SAL (2018) Life cycle and phenology of an Antarctic invader - the flightless chironomid midge, *Eretmoptera murphyi*. *Polar Biology*. DOI: 10.1007/s00300-018-2403-5
- **Bartlett JC**, Convey P, Hayward SAL (2018) Not so Free Range: Oviposition microhabitat and egg sac clustering affects *Eretmoptera murphyi* (Diptera: Chironomidae) reproductive success. *Polar Biology*. DOI: 10.1007/s00300-018-2420-4
- **Bartlett JC**, Convey P, Pertierra L, Hayward SAL (2018) An insect invasion of Antarctica: the past, present and future distribution of *Eretmoptera murphyi* (Diptera, Chironomidae) on Signy Island. *Biological Invasions*. In review.
- **Bartlett JC**, Convey P, Newsham K, Hayward SAL (2018) *The ecological impacts of a single introduced species: Eretmoptera murphyi on Signy Island*.
 - Entomological Society of America Annual Meeting, Vancouver (Nov 2018)
 - British Ecological Society Annual Meeting, Birmingham, UK (Dec 2018)
- **Bartlett JC**, Convey P, Pertierra L, Hayward SAL (2018) *When alien midge attack...Antarctica!*
 - National Environment Research Council Central England Conference. (Sept 2018).
 - POLAR 2018 – IASC/SCAR Conference, Davos, Switzerland. (June 2018).

- **Bartlett JC**, Convey P, Hayward SAL. *How to be a successful invader: Lessons from the life cycle of an Antarctic midge*.
 - Network for Arthropods of the Tundra Inaugural Meeting. Aarhus, Denmark. (Nov 2016).
 - UK Antarctic Science Conference, Norwich, UK. (June 2016).

Awards, Grants and Scholarships

- Full PhD scholarship from the NERC, £8000 research fund + stipend + bench fees (2015 – 2019)
- NERC Collaborative Antarctic Science Scheme – Full field support & logistical funding for 2016/17 Signy field season – ca £7500 (May 2016)
- Competitive Travel Grants:
 - Entomological Society of America Travel Award – \$500 (November 2018); Natural Environment Research Council (CENTA) Internship Award – £250 (June 2017); University of Birmingham College of Life and Environmental Science Travel Award - £1000 (July 2017); SEB/Company of Biologists Travel Prize – £250 (October 2016)
- Conference Presentation Awards:
 - British Ecological Society Anne Keymer Prize 2018 – Overall Winner (Dec 2018). National Environment Research Council, Central England Conference 2018 – Best Oral Presentation, (August 2018); University of Birmingham Research School – Oral Presentation Prize (April 2018); British Antarctic Survey Symposium, Best Poster (November 2016); UK Antarctic Science Conference, Best Poster (June 2016).

Professional Memberships

- Member of the Royal Society of Biology and British Ecological Society. Student member of the Entomological Society of America, British Entomological and Natural History Society, Society of Experimental Biology.

Reviewing

- Expert reviewer for the IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC), Summary for Policymakers chapter, representing the Association of Polar Early Career Scientists (APECS).
- Reviewer for Polar Biology and African Journal of Ecology.

Skills & Experience

- **Analytical:** Statistical software (R [basic], Prism, SPSS, XLSTAT); Spatial data and mapping GIS (QGIS & ArcGIS); Spatial modelling (QGIS, MaxEnt).
- **Ecophysiological:** Super-cooling points; CTMin/Max; desiccation; dissection; microscopy; invertebrate and microfauna (tardigrades etc.) culturing; experimental conditions; field collection of invertebrates; maintenance of live insect collections.
- **Molecular Biology:** Lipid peroxidation and protein assays; comet assays; sterile technique
- **Microbiology:** Fungal and bacterial plating and culturing from soil and invertebrate samples; algae culturing; DAPI staining; sterile technique.
- **Biogeochemistry:** Ion-exchange membranes for soil nutrient analysis; Skalar & Dionex analysis; loss of ignition for SOC; Infra-red gas analysis (IRGA) for respiration (substrate and invertebrates); Colorimetric analysis.
- **Ecological:** Upland, alpine and polar vegetation ID, in particular sphagnum mosses and grasses; Scatology of European rodents and mammals; wildlife camera traps; soil coring; experimental design in field
- **Field:** 4 months Signy Island, Antarctica; 2 months Svalbard, including one week in remote camp (gun trained); A total of 12 months (x5 seasons) of summer field campaigns across several mountain areas in Norway, including multiple weeks in remote camps. Expedition planning. In-field training of volunteers and colleagues. Mountaineer and kayaker.
- **Leadership:** Former business owner TriTalk Ltd, 2007-2012; Former Junior manager for Lloyds TSB; Former Secretary and Vice-President of the University of Nottingham Mountaineering Society; Scientific supervisor and field lead for multiple field campaigns; Former education lead for Moors for the Future Community Science Project. Falmouth University Class President 2002; Lead on
- **Graphic Design:** Powerpoint. Website design. Adobe suite, including Photoshop and basic Illustrator, and Indesign.

Invited Talks & Lectures

- *Human impacts in Antarctica: Challenges for terrestrial conservation.* University of Cumbria. February 2019
- *Lean in? Or reach out?* Women in Science & Engineering - 'Inspire' series, University of Birmingham. February 2019.
- *When aliens attack...Antarctica!* Northern Ireland Science Festival – 'Dippy in Depth' series, Ulster Museum. Nov 2018.
- *Aliens in Antarctica: Invasions in a warming world.* Saint Mary's College, Women in Ecology series, Notre Dame USA. Nov 2018
- *Careers outside the lab.* University of Birmingham Biological Society. October 2016

Committees, Working Groups and Policy

- Member of the British Ecological Society's Public Engagement Working Group since Autumn 2016. Initiated digital media training and development fund of £4000.
- PhD Representative for the University of Birmingham Bioscience Equality & Diversity committee. Initiated a lunch time seminar series on well-being at work.
- Member of the University of Birmingham Biological Sciences Graduate Research School committee, helping organise the annual conference.
- Summer intern for the Scientific Committee on Antarctic Research.

Teaching & Administration

- **Lecturer and project supervisor** for Alpine and Glacier Ecology field course module, held in Finse, Norway by the University of Birmingham. Designed online class quizzes, module course content and examined test questions. July 2015, 2016, 2017, 2018.
- **Demonstrator and assignment marker** for University of Birmingham undergraduate modules: Insect Biology and Evolution, x2 classes a year 2016 - 2018; Human Evolution practical x2 classes per year, 2016 - 2018; Plant Biology practical, four-week supervision of student projects on photosynthesis, 2016 – 2018.
- **Supervision** of 2018 MSc Toxicology student, (Richard Radcliffe) leading to a joint publication; project supervision and mentoring of x3 Erasmus students during 2016 (Mark Canlas; Pablo Llévenes Martínez) and 2017 (Marta Sancho).
- **Demonstrator** on MSc field course "Freshwater Quality" for the School of Environmental Health and Science at the University of Birmingham. September 2016.
- **Guest lecturer** on MSc field course "Upland geomorphology and hydrology", for the Dept of Geography at the University of Derby. June 2014.
- **Exam invigilator** for BSc and MSc students at University of Birmingham. 2015- 2019.

Selected Outreach, Media and Public Engagement

- **Public Lectures:** Speaker at the Northern Ireland Science Festival as part of the Natural History Museum's "Dippy on Tour" schedule – evening lecture on aliens in Antarctica to 100 members of the public, Nov 2018; Ran a public lecture series for Moors for the Future on upland bumblebee ecology (10+ lectures) throughout 2014.
- **School Outreach:** UK Polar Network educator for high school students as part of Leeds Science Festival, October 2016; Taught and designed multiple classes (Yr 8 & GCSE level) for high school students on Antarctic Biology and Geography; Careers talk to A' Level students at the University of Birmingham School.
- **Media:** BBC news feature and interview; National and international live and recorded radio interviews; Several articles in international and national press. Podcast appearances on Fieldwork Diaries and Entocast; Guest blog contributions to several sites and organisations; Curator for @Biotweeps. Please see my website for more.

JESAMINE BARTLETT

Current Collaborations

- Dr. Luis Pertierra, King Juan Carlos University. Forecasting the establishment of alien species in a changing Antarctica: a biogeographical and local assessment.
- Professor Kevin Newsham, British Antarctic Survey. Ecological impacts of an invasive species in terrestrial Antarctica.
- Dr Kevin Hughes, British Antarctic Survey. Efficacy of current biosecurity measures in Antarctica.

References

- University of Birmingham: Dr Scott Hayward – s.a.hayward@bham.ac.uk
 - British Antarctic Survey: Prof. Peter Convey – p.con@bas.ac.uk
 - University of Sheffield: Prof Andrew Hodson – Andrew.Hodson@unis.no
 - British Ecological Society: Prof. Helen Roy MBE (PEWG Chair) – hele@ceh.ac.uk
 - Norwegian Institute for Nature Research: Dr Nina Eide (Principal Investigator) – nina.eide@nina.no
 - Moors for the Future: Chris Dean (Programme manager) – chris.dean@peakdistrict.gov.uk.
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