

Stacey Felgate

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Personal Statement

I am a marine science graduate with a specific interest in the impacts of anthropogenic carbon emissions on the marine environment, and how these interactions impact upon the carbon chemistry of the oceans. I have a proven track record both in independent research and in working as part of small, specialised research units, and offer enthusiasm, energy, thirst for adventure and dedication.

Key Skills: experience at sea; self-motivated; driven; methodical; experienced lab assistant

Education

National Oceanography Centre, Southampton

October '17 to present

PhD Oceanography – Biogeochemistry

PhD student in marine biogeochemistry, working under the supervision of Dr Daniel Mayor. My work focuses on closing a gap in the global carbon cycle by tracing terrestrial organic matter as it flows across the land-sea continuum.

SAMS (Scottish Association for Marine Science)

Sept '13 to May '17

BSc (Hons) Marine Science

Final year dissertation project: Using stable isotopes to determine the stability of a saltmarsh Blue Carbon store. BSc (Hons) Marine Science, First Class.

University of Glasgow

Sept '03 to Dec '08

MA Social Science

Final year dissertation project: Violence and community in women's prison populations. President of Sociology Society '07-'09. GU Basketball Team '03-'06. Completed 3 of 4 years, but not graduate due to poor health.

Oban High School

Aug '96 to June '03

SQA Highers ABBBB

Extra-curricular achievements included being elected Head Girl, editor of school newspaper, basketball Team Captain, & coaching of junior sports teams.

Employment History

Environment Agency

July '17 to September '17

Team Member / Intern

Working between Monitoring Strategy and Estuarine and Coastal Monitoring and Surveillance teams, I conducted a review of the national chemicals database to inform the ongoing governmental review of the UK marine monitoring network, designed to implement national capabilities to respond to changes in EU obligations.

Part-time work

May '10 to Present

Various

During my studies I have taken part-time work to pay my way which ranged from a permanent job as a restaurant supervisor to temporary work as a farm hand, youth worker, and political campaign advisor/speech writer. Additionally, I have worked numerous times over the past 4 years as a voluntary lab assistant at SAMS.

Grants/Scholarships

NERC-Funded Bursary

£1,090 (plus travel and accommodation) – November '17

Awarded course fees, travel and accommodation to attend 'Introduction to Metabolomics for Microbiologists', a 3 day course at Birmingham University.

SSF Travel Grant

\$1,000 – October '16

Awarded to allow travel to San Francisco to present research findings at the American Geophysical Union (AGU) Fall Meeting.

Summer Student Fellowship

Woods Hole Oceanographic Institute

\$8,500 – June '16 – September '16

Awarded a summer fellowship to work in collaboration with the US Geological Survey and WHOI Marine Chemistry department to assess the lateral flux of dissolved inorganic carbon from an East Coast saltmarsh. Included stable isotope and radiocarbon analysis.

WHOI Travel Grant
\$1,500 – June '16

Award for return travel UK – USA in order to take part in the above summer fellowship program.

Extended Ellet Line (EEL)
Student Berth – June '16

Selected to undertake sampling and carbon analysis in place of lead researcher on-board this 4 week annual research cruise to Rockall & Iceland. NERC funded.

UHI Student Development Fund
£500 – June '15

Grant awarded to aid in early career development, used to attend a dive school in Malta for basic PADI dive training.

Carnegie Undergraduate Scholarship
£1,400 – May '14

Prestigious summer studentship awarded to allow the completion of a 12 week undirected research project entitled 'Where does all the gas go? Determining CO₂ pathways in a simulated CCS leakage scenario'. Involved TA / DIC / ph. and various other analyses.

Outreach Activities

I believe that outreach and science communication is a vital part of the work we do as scientists, and so have taken every opportunity to become adept at working with non-scientific audiences, from young children to enthusiastic adults.

Skype A Scientist
October '17 - Present

Interactive classroom sessions over skype with classrooms across the world as part of the Skype A Scientist program.

MLT Committee Member (NOCS)
October '17 – present

Committee member responsible for organising the 'Marine Life Talks', a monthly public lecture series held at the NOCS designed to engage local people with marine conservation issues.

STEM Ambassador (SAMS)
September '13 – May '17

Conducting outreach in the on-site Ocean Explorer Centre, in local schools, and on field trips. Predominantly school aged children.

Science Busker (SAMS)
July '14 – December '16

Providing education and entertainment activities at national music festivals and local events.

Teaching Activities

I have experience providing ad-hoc support and peer-mentoring for students with specific learning challenges, and have completed the University of Southampton training for 'demonstrators', which I am eager to put to use during my time here.

Demonstrator
November '17

Tutorial support for undergraduate Marine Biogeochemistry students.

Facilitator (NOCS)
October '17 – November '17

'Exploring our Oceans' MOOC run by the University of Southampton. Teenage / Adult audience from mixed backgrounds.

Political Work

In my free time, I have a personal interest in social justice and am involved in a number of initiatives in this area. Aside from being a satisfying way to contribute to society, these activities have also taught me the importance of building a solid network and given me a number of transferable skills, including event planning (conferences of up to 200 people, workshops, public talks), dealing with the press, publicity, conducting consultations, and working across multiple agencies.

Invited Speaker
November '17
Association of Community Councillors, Kirkintilloch

Invited to give a presentation and lead a discussion on connecting with and empowering local communities, both in collaboration with and outside of the existing local government framework.

Invited Speaker
September '17
Amplify Our Democracy, Dundee

Invited to give a presentation as part of a 1-day local democracy conference on alternative structures for local decision making, and the problems faced communities who try to take charge.

Collaborator

September '16 – present
#OurDemocracy

Community Organiser

June '15 – Present
The People's Council

Campaign Organiser

June '15 – July '15
Argyll Against the Poster Ban

Chairperson of Social Enterprise

December '14 – July '16
Grassroots Oban

Invited Interviewee

September '14
Sky News 'Sunrise'

Speech Writer / Campaign Advisor

April '14 – January '17
Various

Volunteering with Electoral Reform Society (ERS Scotland)'s national campaign for better local democracy and real community control over decisions which impact their lives.

Founding member this campaigning organisation which focusses on empowering local citizens to take control of their communities through education activities and the implementation of a digital democracy platform for linked up, local deliberation and decision making.

Successful local campaign to halt moves by a local council to ban political posters on public ground, against advice and without public approval.

Founding committee member and chair of a local community cafe project which promotes active citizenship and provides 'pay-it-forward' meals and a range of social awareness and cohesion activities.

Sofa panellist invited to take part in a live televised Sky News debate on the possible impacts of Scottish Independence. Chaired by Eamon Holmes.

Ad-hoc speech writing and campaign planning assistance to a number of campaigning organisations and politicians.

Publications

Felgate, S., Gonneea, M., Wang, Z., Kroeger, K., Hicks, N., Turnerwitsch, R., and Chu, S. (In prep.) Characterising the lateral flux of DIC from an East Coast US saltmarsh (Estimated late 2017).

Burrows, M., Kamenos, N., Hughes, D., Stahl, H., Hicks, N., **Felgate, S.**, Howe, J., Tett, P. (In prep.) Carbon budgets and potential blue carbon stores in Scotland's coastal and marine environment (Estimated early 2018).

Taylor, P., Hicks, N., **Felgate, S.**, Vik, U., Blackford, J., Jakobsen, K., Stahl, H. (Submitted.) A balance of carbon – the fate of carbon in a simulated CCS leakage scenario. Journal of Greenhouse Gas Control (Estimated late 2017).

Hicks, N., Taylor, P., **Felgate, S.**, Vik, U., Jakobsen, K., Stahl, H. (In prep.) A novel methodology to investigate the implications of a CCS leak on benthic biogeochemistry using a small-scale mesocosm simulation (Estimated early 2018).

Conference Proceedings (Oral)

Felgate, S., Gonneea, M., Wang, Z., Kroeger, K., and Hicks, N. (September 2017) Using stable isotopes to investigate a saltmarsh Blue Carbon store. Advances in Marine Biogeochemistry (AMBIO – Challenger Society), Oban, Scotland.

Felgate, S., Gonneea, M., Wang, Z., Kroeger, K., Hicks, N., and Chu, S. (December 2016) Characterising the lateral flux of DIC from an East Coast US Saltmarsh. American Geophysical Union (AGU) Fall Meeting, San Francisco, USA.

Felgate, S., Gonneea, M., Wang, Z., Kroeger, K., and Chu, S. (October 2016) Developing a carbon isotope toolbox to characterise the lateral flux of DIC from an East Coast US Saltmarsh. Marine Alliance for Science and Technology Scotland (MASTS) Annual Meeting, Glasgow, UK. **Prize for 3rd best student presentation.**

Felgate, S., Gonneea, M., Wang, Z., Kroeger, K., and Chu, S. (September 2016) End of Fellowship Report: Using Carbon Isotopes to characterise saltmarsh DIC flux – results and next steps. United States Geological Survey (USGS), Massachusetts, USA.

Taylor, P., Stahl, H., Hicks, N., **Felgate, S.**, Vik, U., and Jakobsen, K. (2015) Changes in sediment biogeochemistry when exposed to carbon dioxide in a simulated leak from a sub-seabed carbon capture and storage reservoir. American Society of Limnology and Oceanography (ASLO), Aquatic Sciences meeting, Granada, Spain.

Hicks, N., Taylor, P., **Felgate, S.**, and Stahl, H. (2014) Effects of a CCS leak on benthic biogeochemistry in a mesocosm study. Annual Meeting for FENCO/Coverall Project, University of Oslo, Norway.

Conference Proceedings (Poster)

Felgate, S., Gonnea, M., Wang, Z., Kroeger, K., and Chu, S. (July 2016) A methodology for the characterisation of coastal DIC export flux. WHOI Poster Seminar, Massachusetts, USA.

Media Appearances

'Science... sort of!' podcast interview (December '16).

Available at: <https://soundcloud.com/science-sortof/special-edition-14-2-agu>

'Kid's News: Climate Edition' short film, made in collaboration with primary school children (January '17).

Available at: <https://www.youtube.com/watch?v=r0ca8kRtdiU&feature=youtu.be>

Professional Memberships

SCB (Society for Conservation Biology)

AGU (American Geophysical Union)

Challenger Society

Additional Qualifications

STCW Personal Survival Techniques (March 2016)

ENG1 Medical Certificate (March 2016)

Full, clean EU driving license (July 2010)

Modelling for Ecosystem Based Management (March 2017)