

Zoë Louise Fleming



Resident in: Santiago, Chile
Nationality: British
Tel : +56 961082102
email: z.fleming@udd.cl
Website: <https://zoeffleming.com>

Employment

Part-time Research Assistant in the Centro de Investigación en Tecnologías para la Sociedad (C+), and lecturing on 2 courses, **Universidad del Desarrollo**, Santiago, Chile (January 2019- present)

Part-time Associate Researcher for the Center for Climate and Resilience Research (CR)², Santiago, **University of Chile** (September 2018 - present)

Scientific advisor on **PARExplora** Sur Poniente (Universidad de Chile) project to develop workshops using small sensors to monitor climate change in schools (2019)

Freelance part-time remote work for **NCAS** (August 2018 – March 2019)

National Centre for Atmospheric Science (NCAS) (2008 – July 2018)

NCAS Research scientist based at Leicester University: Long term monitoring of atmospheric trace gases.

Leicester University (September 2007 – April 2008)

Post Doctoral Research Assistant (PDRA) on EU project: European ozone trends

De Montfort University, Leicester (January - August 2007)

Research Assistant: The communication of climate change

Greenpeace International, Amsterdam, Netherlands (June-October 2006)

Research Assistant in Research Unit (media analysis)

Imperial College London (2004- 2005)

Post Doctoral Research Assistant, Department of Environmental Science and Technology

Leibniz Institute for Baltic Sea Research (IOW), Warnemünde, Germany (2000- 2001)

Laboratory work in Marine Chemistry department

Berlitz language centre, Rostock, Germany (2001)

Teaching English and French to German adults and children

Education

University of the Highlands and Islands (2015-2016)

PGCert in Sustainable Mountain Development

University of Leicester (2001-2004)

Zoë Louise Fleming

PhD in Department of Chemistry with Prof. Paul S. Monks: “The Measurement of Peroxy Radicals in the Marine Boundary Layer using the PERCA technique”

Edinburgh University (1995-2000)
M.Chem. Environmental Chemistry

Université Libre de Bruxelles (U.L.B.), Brussels (1995-1996)
1st year Geography degree (in French)

European School Brussels I (1984-1995)
European Baccalaureate

Publications

- 38 publications in scientific journals ([link](#)) with an h-index of 18
- Interviewed and quoted in various press articles and videos and published in various educational science magazines
- Attended and presented at many international conferences (including AGU 2020)

Research funding

- Main scientist on the Concurso de Equipamiento científico y tecnológico Mayor FONDEQUIP, ANID, 2020 “Platform for standardization, characterization and calibration of environmental air and water diagnoses” (2021-2025)
- Principal Investigator on many outreach funds and contributing researcher on EU, UK (NERC) projects. In Chile applied unsuccessfully as PI on FONDECYT in 2019 and as contributing researcher in FONDAF proposals in 2019.
- Funding for travel and field work from Centro de Investigación en Ecosistemas de la Patagonia (CIEP) from the proyecto Laboratorio Eco-Climático de Aysén: Hacia un Integración en Eco-sistémica (CONICYT, R17A10002), July 2019
- Lead author on IGAC-funded Tropospheric Ozone Assessment Report (TOAR), 2016-2018
- Scientific advisor on Royal Society of Chemistry-funded “Chemistry for Cleaner air” air pollution measurement and citizen science project with the London Sustainability Exchange (LSx), 2018-2019
- Researcher on Atmospheric Pollution and Human Health (APHH) in a Chinese Megacity programme, (NERC) and the National Natural Science Foundation of China (NSFC) (2016-2018)
- Researcher on NERC CLEARFLO project (2010-2014) to measure the pollution in London

Field work experience

- **Atmospheric chemistry measurements** in Chile, the UK, Ireland, Spain, Cape Verde islands and Antarctica
- **Marine sampling** in Baltic Sea, Antarctic and Arctic Ocean cruises, marine wildlife and plastic pollution sampling in Spain.

Zoë Louise Fleming

- **Student field work training:** Mentor and organiser at the NCAS Atmospheric Field Measurement school, Isle of Arran, Scotland (2011, 2012, 2015, 2016) and Public science outreach events in the UK and Chile.
- **Expedition experience** in Antarctica and in the Arctic Ocean. Ski mountaineering expedition in Greenland. Leader on youth adventure and science expeditions to Arctic Norway.

IT skills

- Connection to Super computers with Linux software and running Atmospheric models
- Experience of using large databases of environmental data
- Good knowledge of Microsoft office tools
- Use of IGOR, R, IDL and Python packages and programming

Committees

- Chair of the Environmental Chemistry Group of the Royal Society of Chemistry (2016-2018)
- Non-executive member of NCAS executive committee (2013-2016)
- Member of NERC Peer review college (assessing grants and fellowships) (2014-2019)
- Member of Athena Swan (women in science) committee at Leicester University (2013-2018)
- Editor for the journal Atmospheric Science Letters

Teaching

- PhD, Masters and Undergraduate supervision and examiner on Masters and PhD vivas
- Lecturing in Atmospheric Chemistry and Environmental and Climate change topics
- NCAS Field Measurement school mentor and organiser
- School visits and preparing outreach materials for schools and science festivals (in Chile, PARExplora workshops and outreach stall at zona Verde, COP25, Madrid)
- Chemistry Undergraduate Laboratory Demonstrating

Other skills and interests

- Mother tongue English and fluent in Spanish and French and moderate German and Italian
- Driving licence (with 4 x 4 experience)
- Mountain Leader (MTA) qualification
- Wilderness First aid Certificate
- Aspirant in the Cuerpo de Socorro Andino de Chile (Mountain rescue)
- Qualifications in teaching yoga and in Sports massage
- Mountain activities : running, mountain biking, climbing, ski touring, mountaineering