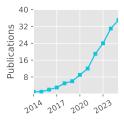
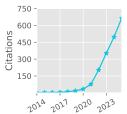
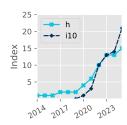
# **Denis Sergeev**

♣ Pronouns: he/him/his✦ University of Bristol, UK➡ denis.sergeev@bristol.ac.uk♠ 0000-0001-8832-5288

dennissergeev.github.io
dennissergeev







Total Pub. 35
Refereed 35
First Author 8
Citations 665
h-index 15

Updated: 17 Sept 2025

### Career history

Jan 2025–now **Lecturer in Astrophysics** 

School of Physics, University of Bristol

Sep 2021–Dec 2024 **Postdoctoral Researcher** 

Project: Exascale Exoplanet Modelling

Department of Physics & Astronomy, University of Exeter

Sep 2018–Aug 2021 Postdoctoral Researcher

Project: Climate Modelling of Rocky Exoplanets

Department of Mathematics & Statistics, University of Exeter

### **Academic Qualifications**

Oct 2014–Aug 2018 PhD in Meteorology

Thesis title (shortened): 'Characteristics of Polar Lows in the Nordic Seas'

School of Environmental Sciences, University of East Anglia Supervisors: Ian A. Renfrew, Thomas Spengler, Stephen Dorling

Sep 2009–May 2014 Specialist Diploma (1st class)

Thesis title: 'Idealised Numerical Modelling of Polar Mesocyclone Dynamics' Z

Department of Meteorology and Climatology, Moscow State University

Supervisor: Victor Stepanenko

## **Funding and Awards**

D	Direct Funding, PI	Est. Total Value
20	024 Above & Beyond Silver Award   University of Exeter	£1000
20	023 Meeting Organisation Funding (Exoclimes VI and ExoSLAM)   RAS	£5000
20	022 Undergraduate Student Bursary (awarded; student declined)   RAS	£1200
20	017 Best Presentation Award   CEEDA Symposium	$\sim$ £ $100$
20	016 Travel Bursary   Polar Prediction School	$\sim$ £ $1000$
20	015 Travel Award   High-Latitude Dynamics workshop	$\sim$ £ $1000$
20	014 Lord Zuckerman PhD scholarship   School of Environmental Sciences, UEA	$\sim$ £112000
20	014 Young Scientist Travel Award   EGU General Assembly	$\sim$ £ $200$
20	014 Russian Academy of Sciences Young Scientist Medal	$\sim$ £ $1000$
D	Direct Funding, co-I	
20	024 UKSA Studentships: Mars Exploration Science	•
20	024 Research Software Engineer Support   DiRAC HPC	$\sim$ £ $45000$
0	Observational Facilities Resources	
20	023 JWST: 49.21 Primary Spacecraft Hours in Cycle 2 (GO 3838, PI: J. Kirk)	•

### **Research Interests**

#### **Atmospheric aerosols:**

How do clouds, hazes and dust shape planetary climates?

#### **Atmospheric convection on exoplanets:**

How does convection shape global energy redistribution?

#### **Extraterrestrial lightning:**

How is lightning generated on exoplanets and can we detect it?

Publications (see below):

#17, 20, 22, 24, 27, 29, 34

#8, 17, 30, 35

#19, 35

#### Atmospheric dynamics on Earth and other planets:

#2, 3, 4, 5, 7, 10, 11, 13, 14, 16

How do wind jets and cyclones form in planetary atmospheres?

Planet formation:

#25, 28, 31, 32, 33

How does atmospheric composition relate to the planet's history?

Model development and intercomparison:

#12, 15, 16, 17, 18, 23, 30

How do we build robust and reproducible exoplanet models?

### **Publications**

(preprints in grey) Citations

- Mak, M. T., Sergeev, D. E., Mayne, N. J., Zamyatina, M., et al., 2025, The impact of different haze 35 types on the atmospheres and observations of hot Jupiters: 3D simulations of HD 189733b, HD 209458b, and WASP-39b, MNRAS 🗹
- Sergeev, D. E., McDermott, J. W., Woods, L., Braam, M., et al., 2025, Lightning activity on a tidally locked terrestrial exoplanet in storm-resolving simulations for a range of surface pressures, MNRAS Z
- Meech, A., Claringbold, A. B., Ahrer, E., Kirk, J., et al. (incl. Sergeev, D. E.), 2025, BOWIE-ALIGN: 3 substellar metallicity and carbon depletion in the aligned TrES-4b with JWST NIRSpec transmission spectroscopy, MNRAS 🗹
- Kirk, J., Ahrer, E., Claringbold, A. B., Zamyatina, M., et al. (incl. Sergeev, D. E.), 2025, BOWIE-11 ALIGN: JWST reveals hints of planetesimal accretion and complex sulphur chemistry in the atmosphere of the misaligned hot Jupiter WASP-15b, MNRAS &
- Penzlin, A. B. T., Booth, R. A., Kirk, J., Owen, J. E., et al. (incl. Sergeev, D. E.), 2024, BOWIE-ALIGN: 18 how formation and migration histories of giant planets impact atmospheric compositions, MNRAS Z
- Sergeev, D. E., Boutle, I. A., Lambert, F. H., Mayne, N. J., et al., 2024, The Impact of the Ex-8 plicit Representation of Convection on the Climate of a Tidally Locked Planet in Global Stretched-mesh Simulations, ApJ 🗹
- Natchiar, S. R. M., Webb, M. J., Lambert, F. H., Vallis, G. K., et al. (incl. Sergeev, D. E.), 2024, Reduction in the Tropical High Cloud Fraction in Response to an Indirect Weakening of the Hadley Cell, JAMES 🔀
- 28 Zamyatina, M., Christie, D. A., Hébrard, E., Mayne, N. J., et al. (incl. Sergeev, D. E.), 2024, 13 Quenching-driven equatorial depletion and limb asymmetries in hot Jupiter atmospheres: WASP-96b example, MNRAS 🗹
- Mak, M. T., Sergeev, D. E., Mayne, N., Banks, N., et al., 2024, 3D simulations of TRAPPIST-1e with varying CO<sub>2</sub>, CH<sub>4</sub>, and haze profiles, MNRAS **∠**
- 26 Villanueva, G. L., Fauchez, T. J., Kofman, V., Alei, E., et al. (incl. Sergeev, D. E.), 2024, Modeling 10 Atmospheric Lines by the Exoplanet Community (MALBEC) Version 1.0: A CUISINES Radiative Transfer Intercomparison Project, Planet. Sci. J. Z
- Kirk, J., Ahrer, E., Penzlin, A. B. T., Owen, J. E., et al. (incl. Sergeev, D. E.), 2024, BOWIE-11 ALIGN: A JWST comparative survey of aligned versus misaligned hot Jupiters to test the dependence of atmospheric composition on migration history, RAS Techniques and Instruments &
- Mak, M. T., Mayne, N. J., Sergeev, D. E., Manners, J., et al., 2023, 3D Simulations of the Archean Earth Including Photochemical Haze Profiles, J. Geophys. Res.: Atmospheres Z
- Sergeev, D. E., Mayne, N. J., Bendall, T., Boutle, I. A., et al., 2023, Simulations of idealised 3D 12 atmospheric flows on terrestrial planets using LFRic-Atmosphere, Geosci. Model Dev. &
- Cohen, M., Bollasina, M. A., Sergeev, D. E., Palmer, P. I., et al., 2023, Traveling Planetary-scale Waves 22 Cause Cloud Variability on Tidally Locked Aquaplanets, Planet. Sci. J. Z.
- Eager-Nash, J. K., Mayne, N. J., Nicholson, A. E., Prins, J. E., et al. (incl. Sergeev, D. E.), 2023, 3D 21 Climate Simulations of the Archean Find That Methane has a Strong Cooling Effect at High Concentrations, J. Geophys. Res.: Atmospheres Z
- McCulloch, D., Sergeev, D. E., Mayne, N., Bate, M., et al., 2023, A modern-day Mars climate in the Met Office Unified Model: dry simulations, Geosci. Model Dev.
- Braam, M., Palmer, P. I., Decin, L., Ridgway, R. J., et al. (incl. Sergeev, D. E.), 2022, Lightning-16 induced chemistry on tidally-locked Earth-like exoplanets, MNRAS Z

- Christie, D. A., Lee, E. K. H., Innes, H., Noti, P. A., et al. (incl. **Sergeev, D. E.**), 2022, CAMEMBERT: 8
  A Mini-Neptunes General Circulation Model Intercomparison, Protocol Version 1.0.A CUISINES Model
  Intercomparison Project, Planet. Sci. J.
- 17 **Sergeev, D. E.**, Fauchez, T. J., Turbet, M., Boutle, I. A., et al., 2022, The TRAPPIST-1 Habitable 66 Atmosphere Intercomparison (THAI). II. Moist Cases-The Two Waterworlds, Planet. Sci. J. ☑
- Turbet, M., Fauchez, T. J., **Sergeev, D. E.**, Boutle, I. A., et al., 2022, The TRAPPIST-1 Habitable **54** Atmosphere Intercomparison (THAI). I. Dry Cases-The Fellowship of the GCMs, Planet. Sci. J. ☑
- Fauchez, T. J., Villanueva, G. L., **Sergeev, D. E.**, Turbet, M., et al., 2022, The TRAPPIST-1 Habitable **48**Atmosphere Intercomparison (THAI). III. Simulated Observables-the Return of the Spectrum, Planet.
  Sci. J. Z
- Sergeev, D. E., Lewis, N. T., Lambert, F. H., Mayne, N. J., et al., 2022, Bistability of the Atmospheric 27 Circulation on TRAPPIST-1e, Planet. Sci. J. ☑
- Cohen, M., Bollasina, M. A., Palmer, P. I., **Sergeev, D. E.**, et al., 2022, Longitudinally Asymmetric **14**Stratospheric Oscillation on a Tidally Locked Exoplanet, ApJ
- Fauchez, T. J., Turbet, M., **Sergeev, D. E.**, Mayne, N. J., et al., 2021, TRAPPIST Habitable Atmosphere **36**Intercomparison (THAI) Workshop Report, Planet. Sci. J.
- Terpstra, A., Renfrew, I. A., & **Sergeev, D. E.**, 2021, Characteristics of Cold-Air Outbreak Events and **26**Associated Polar Mesoscale Cyclogenesis over the North Atlantic Region, J. Cli.
- Renfrew, I. A., Barrell, C., Elvidge, A. D., Brooke, J. K., et al. (incl. **Sergeev, D.**), 2021, An evaluation of surface meteorology and fluxes over the Iceland and Greenland Seas in ERA5 reanalysis: The impact of sea ice distribution, Q. J. R. Meteorol. Soc.
- 8 **Sergeev, D. E.**, Lambert, F. H., Mayne, N. J., Boutle, I. A., et al., 2020, Atmospheric Convection **61** Plays a Key Role in the Climate of Tidally Locked Terrestrial Exoplanets: Insights from High-resolution Simulations, ApJ 🗹
- 7 Joshi, M. M., Elvidge, A. D., Wordsworth, R., & **Sergeev, D.**, 2020, Earth's Polar Night Boundary Layer **18** as an Analog for Dark Side Inversions on Synchronously Rotating Terrestrial Exoplanets, ApJ ☑
- Renfrew, I. A., Pickart, R. S., Våge, K., Moore, G. W. K., et al. (incl. **Sergeev, D.**), 2019, The Iceland **27** Greenland Seas Project, BAMS
- 5 **Sergeev, D.**, Renfrew, I. A., & Spengler, T., 2018, Modification of Polar Low Development by Orography **15** and Sea Ice, Mon. Wea. Rev. **Z**
- 4 Shestakova, A. A., Toropov, P. A., Stepanenko, V. M., **Sergeev, D. E.**, et al., 2018, Observations and **6** modelling of downslope windstorm in Novorossiysk, Dyn. Atm. Ocean. 

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- 3 **Sergeev, D. E.**, Renfrew, I. A., Spengler, T., & Dorling, S. R., 2017, Structure of a shear-line polar low, 22 Q. J. R. Meteorol. Soc. ☑
- 2 Spengler, T., Renfrew, I. A., Terpstra, A., Tjernström, M., et al. (incl. **Sergeev, D.**), 2016, High- **7** Latitude Dynamics of Atmosphere-Ice-Ocean Interactions, BAMS Z

### **Conferences and Seminars**

#### **Invited Talks**

- Feb 2025 Exoplanet climate modelling with LFRic University of East Anglia | Norwich, UK
- May 2024 3D simulations of exoplanet atmospheres with the next-generation Met Office model University of Leicester | Leicester, UK
- Apr 2024 Shall I compare thee to a distant world? Inter-planet and inter-model comparative studies EGU General Assembly | Vienna, Austria
- Jul 2023 Simulations of idealised 3D atmospheric flows on terrestrial planets using LFRic-Atmosphere

	NASA GISS Seminar   Online
Mar 2023	First results of using LFRic for exoplanet climate modelling
	NIWA Seminar   Wellington, New Zealand
Feb 2023	Atmospheric dynamics and chemistry on exoplanets
	UQ Astro Group Meeting   Brisbane, Australia
Feb 2023	Atmospheric dynamics and chemistry on exoplanets 🗹
	UniSQ Exoplanet Group Seminar   Brisbane, Australia
Feb 2023	Atmospheric dynamics and chemistry on exoplanets
	UNSW AstroSeminar   Sydney, Australia
Apr 2022	Dichotomy of the atmospheric circulation on TRAPPIST-1e ☑
·	NASA GISS Seminar   Online
Jan 2022	Dichotomy of the atmospheric circulation on TRAPPIST-1e
	NASA GSFC Extrasolar Planets Seminar   Online
Nov 2021	TRAPPIST-1 Habitable Atmosphere Intercomparison (THAI)
	MPIA APEx Exocoffee   Online
May 2021	Overcast on TRAPPIST-1e 🗹
•	RCC MSU Geophysical Seminar   Online
Sep 2020	Simulations of convection over a range of atmospheric conditions on TRAPPIST-1e 🗹
	THAI Workshop   Online
Apr 2020	Atmospheric convection plays a key role in the climate of tidally locked exoplanets 🗹
	University of Reading Meteorology Seminar   Online
Apr 2020	Atmospheric convection plays a key role in the climate of tidally locked exoplanets 🗹
	NASA GISS Seminar   Online
Contribut	ed Talks
Sep 2023	Introducing GeoVista - Cartographic rendering and mesh analytics powered by PyVista (joint talk)
3cp 2023	Met Office Seminar   Exeter, UK
Jul 2022	Bistability of the atmospheric circulation on TRAPPIST-1e
54. 2022	Rocky Worlds II   Oxford, UK
Apr 2022	Dichotomy of the atmospheric circulation on TRAPPIST-1e
, .p	Exoplanet Modelling in the James Webb Era II: Terrestrial planets and sub-Neptunes   Online
Nov 2020	Explicit convection on tidally locked rocky exoplanets simulated with the UM nesting suite 🗹
	Unified Model users workshop   Online
Aug 2019	Simulations of moist convection on tidally-locked rocky exoplanets
O	Exoclimes V   Oxford, UK
Jun 2019	North Atlantic polar mesoscale cyclones in ERA5 and ERA-Interim reanalyses 🗹
	IGP workshop   Norwich, UK
Apr 2019	Atmospheric convection on tidally-locked Earth-like exoplanets
•	UK Exoplanet Community Meeting   London, UK
Jun 2018	Modification of Polar Low Development by Sea Ice and Svalbard Orography ☑
	POLAR2018   Davos, Switzerland
Oct 2017	The influence of Svalbard orography and sea ice on polar low development 🗹
	18th Cyclone Workshop   Sainte-Adèle, Canada
Apr 2017	Polar lows and how background environment can influence their development 🗹
	Cambridge Earth Systems Science EnvEast Doctoral Alliance Symposium   Cambridge, UK
May 2016	Structure of the shear-line polar low south of Svalbard
	NORPAN meeting   Tokyo, Japan
Apr 2016	Structure of the shear-line polar low south of Svalbard 🗹

### **Poster Presentations**

Jun 2024 The impact of convection on the climate of a tidally locked planet in stretched-mesh simulations Exoplanets 5 | Leiden, Netherlands

Apr 2024	The impact of convection on the climate of TRAPPIST-1e in global stretched-mesh simulations
	EGU General Assembly   Vienna, Austria
Apr 2024	The impact of convection on the climate of a tidally locked planet in stretched-mesh simulations
	UK Exoplanet Community Meeting   Birmingham, UK
Nov 2022	Dry Modern-Day Mars Climate in the Met Office Unified Model
	UK Solar System Planetary Atmospheres   London, UK
Sep 2022	Bistability of the Atmospheric Circulation on TRAPPIST-1e
	UK Exoplanet Community Meeting   Edinburgh, UK
Jul 2015	Structure and dynamics of a shear-line polar low during a cold-air outbreak over the Norwegian Sea
	Royal Meteorological Society Student Conference   Birmingham, UK
Mar 2015	Structure and dynamics of a shear-line polar low during a cold-air outbreak over the Norwegian Sea
	Dynamics of Atmosphere-Ice-Ocean Interactions in the High Latitudes workshop   Rosendal, Norway
May 2014	Numerical modelling of polar mesocyclones dynamics diagnosed by the energy budget
	EGU General Assembly   Vienna, Austria
Apr 2013	Impact of subgrid-scale vegetation heterogeneity on the carbon cycle
	EGU General Assembly   Vienna, Austria
Apr 2013	Numerical modelling of polar mesocyclones generation mechanisms
	EGU General Assembly   Vienna, Austria

## **Supervision**

(Projects with me as the lead supervisor are in **bold**. Students who continued their academic career are underlined.)

## **PhD Supervision**

Sep 2025-Sep 2029	Alex Corbett (U. Bristol)
	Project: Convection on Sub-Neptunes
	Co-supervisors: B. Shipway, Z. Leinhardt
Sep 2025-Sep 2029	Will Luscombe
	Project: Forecasting Martian dust storms
	Co-supervisors: N. J. Mayne, M. Bate, B. Drummond
Sep 2021-Apr 2025	Martha (Mei Ting) Mak (U. Exeter)
	Project: Hazes in Planetary Atmospheres
	Co-supervisors: N. J. Mayne, J. Manners, E. Hébrard

## **Masters Supervision**

Jan 2023–May 2024	<u> </u>
	Project: Mars Atmosphere Modelling
	Co-supervisors: M. Bate, N. J. Mayne, D. McCulloch
Sep 2020-Sep 2022	Danny McCulloch (MSci by Research)
	Project: Climate Modelling of Modern-Day Mars
	Co-supervisors: M. Bate, N. J. Mayne
Apr 2021-Sep 2022	Meghan Plumridge (MSci by Research)
	Project: Climate Modelling of Early Mars
	Co-supervisors: M. Bate, N. J. Mayne
Jan 2021–May 2022	Jasper Chadwick & Esse Sellwood
	Project: Ocean Heat Transport on Rocky Exoplanets
	Co-supervisors: F. H. Lambert, J. Eager-Nash
Jan 2021-May 2022	Isabelle Browne & Oakley Young
	Project: Greenhouse Effect on Early Mars
	Co-supervisors: F. H. Lambert, N. J. Mayne, J. Eager-Nash
Jan 2020-May 2021	Toby Ferrison
-	Project: Titan Climate Modelling
	Co-supervisor: F. H. Lambert
Oct 2018-May 2019	Jake Eager-Nash & David Reichelt
,	Project: Implications of Stellar Type on the Climate of Tidally Locked Terrestrial Exoplanets
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Co-supervisors: F. H. Lambert, N. J. Mayne

### **Undergraduate and Summer Internship Supervision**

Jul-Sep 2022 Oakley Young
Project: Ekma

Project: Ekman Ocean Model

Co-supervisors: J. Eager-Nash, F. H. Lambert

Jun-Sep 2022 James McDermott & Lottie Woods

**Project: Simulations of Lightning Storms on Tidally Locked Rocky Exoplanets** 

Jun-Aug 2021 Oakley Young

Project: Climate Modelling of Archean Earth Co-supervisors: J. Eager-Nash, N. J. Mayne

Jun-Aug 2021 Joshua Parkin & Esse Sellwood

Project: The Impact of Host Star Spectrum on the Climate of Rocky Exoplanets

Co-supervisors: J. Eager-Nash, N. J. Mayne

Jun-Aug 2019 Isobel Parry

Project: Water Cycle on Proxima Centauri b

Co-supervisor: F. H. Lambert

## **Teaching and Mentoring**

2025-now	Environmental Physics
	Lecturer $\mid$ University of Bristol $\mid$ $\sim$ 40 students
2025-now	Practical Physics III: Research Skills and Group Project
	Tutor   University of Bristol   2 groups of $\sim$ 7 students
2025-now	Research Project in Physics
	Supervisor & assessor   University of Bristol   $\sim$ 10 students
Jul 2024	Algorithms For Exascale Summer School <b>☑</b>
	Invited lecturer $\mid$ University of Exeter $\mid$ $\sim$ 20 students
Feb 2024	Physics of Climate Change
	Workshop lead $ $ University of Exeter $ \sim$ 30 students
Jul 2023	Climatematch Academy
	Mentor $ $ Online $ $ 3 groups of $\sim$ 5 students
Jul 2023	International Sustainability Summer School
	Lecturer $\mid$ University of Exeter $\mid$ $\sim$ 10 students
Jun 2023	Exoclimes Summer School in Atmospheres and Modelling (ExoSLAM) 🗹
	Lecturer $\mid$ University of Exeter $\mid$ $\sim$ 50 students
2016-2018	Introduction to Python in Environmental Sciences 🗹
	Course creator & lead   University of East Anglia   $\sim$ 50 students
2015-2017	Modelling Environmental Processes; Meteorology; Numerical Skills
	Teaching assistant   University of East Anglia

## Research Leadership and Impact

2024-now	${\hbox{\hbox{\tt Co-lead}}}$ of Climates Using Interactive Suites of Intercomparisons Nested for Exoplanet Studies ${\hbox{\scriptsize (CUISINES)}}$
Jun 2023	Co-chair of Exoclimes Summer School in Atmospheres and Modelling (ExoSLAM) 🗹
2023	Interview by the University of Exeter about my research 🗹
2023	Interview by UKRI/STFC about my outreach <b>☑</b>
2023	Expert Scientist at the British Science Festival Climate Exhibition 🗹
2022	Press releases: University of Exeter Z, American University Z, & INSU CNRS Z
2020-now	3D visualisations of exoplanet simulations:
	'Cloudy Skies of Distant Exoplanets' 🗹   University of Exeter Images of Research 2023
	'A refined look at tidally locked exoplanets' 🗹   DiRAC HPC Research Image Competition 2023
	'Exoplanetary Atmospheres' 🗹   Exeter Science Centre, Science as Art Gallery 2020

'Dusty exoplanet atmospheres' ☑ | Nature Press Release

'Virtual Reality Exploration of Exoplanets' <a href="#">Ľ | 360 VR video (contributor)</a>

Science consulting on the 'Exoplanet Explorers' videogame 2019

2015 Blogging:

Disastrous Disaster Movies 🗹

Polar Lows: What Fuels Arctic Hurricanes?

Worldwide Weird Weather Words Z

### **Organisation of Scientific Meetings**

Mar 2026	UK Exoplanet Community Meeting (SOC) <a>E</a>   Bristol, UK
Oct 2025	Atmospheric and interior evolution of planetary magma oceans (SOC) ☑   Leiden, the Netherlands
Sep 2025	BUFFET-5 (Co-chair) 🗹   Bordeaux, France
Jul 2025	Exoclimes VII (SOC) 🗹   Montreal, Canada
Jun 2025	Idealised modelling with LFRic (Chair) $\mid$ Exeter, UK $\mid$ $\sim$ 50 attendees
Oct 2024	BUFFET-4: Building a Unified Framework For Exoplanet Treatments (Co-chair) 🗹   Online
Jun 2024	What's Cookin' Doc? A CUISINES meeting (Chair)   Leiden, the Netherlands   $\sim$ 20 attendees
Jun 2023	ExoSLAM Summer School (Co-chair)
Jun 2023	Exoclimes VI (LOC) ☑   Exeter, UK   ~200 attendees
Mar 2023	Challenge of Science Leadership Short Course   Exeter, UK

### **Reviewing and External Activities**

2017-now	Reviewer for: Nat. Astron., MNRAS, Planet. Sci. J., Geophys. Res. Lett., ApJ, Planet. Space Sci., Q. J.
	R. Meteorol. Soc.
2023-now	Expert reviewer for: the James Webb Space Telescope General Observer Programs (Exoplanets & Disks,
	Cycles 3 & 4)
2021-now	Member of: the Royal Astronomical Society, Europlanet Society

#### Skills

Sep 2023

Languages	English (fluent), French (basic), Russian (native)
Numerical models	LFRic, Unified Model, SOCRATES, LAGRANTO, Isca

Python, Bash, FORTRAN, MATLAB, NCL Programming languages

Python libraries (user) cartopy, cython, iris, matplotlib, numpy, pandas, pyvista, xarray

Python libraries (creator/contributor) aeolus, cartopy, pyvista, geovista

Dask, MPI, OpenMP Parallel computing Git, Subversion Version control

Document preparation LATEX, Quarto, Jupyter Notebooks, Markdown, HTML, CSS, reST

## **Vocational Training**

Belbin Training 🗹

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Mar 2023	Challenge of Science Leadership <b>∠</b>
Dec 2022	Interview Training
Jul 2020	Writing Workshop for Climate Scientists
Mar 2020	ESA JWST Master Class 🗹
Jul 2019	ICTP Summer School on Convective Organization and Climate Sensitivity 🗹
Apr 2018	Fortran Modernisation Workshop 🗹
Jan 2018	Helicopter Underwater Escape Training Course (CA-EBS) ☑
Dec 2017	Sea Survival Course
Jun 2017	Weather Presenting
Feb 2017	Level 1 First Aid for Field Work Course

Jan 2017 Raspberry Pi Basics

Apr 2016 WWRP/WCRP/Bolin Center Polar Prediction School

Dec 2014 UK Met Office Unified Model Training

## **Vocational Experience**

Apr-Jun 2018	Data Technician
	Processing of meteorological data collected in the IGP field campaign 🗹   University of East Anglia
2015-2018	Founder and Leader
	Python Users Group 🗹   University of East Anglia
Feb-Mar 2018	Member of the Meteorology Team
	The Iceland-Greenland Seas Project (IGP) field campaign   Akureyri, Iceland
Mar 2015	Rapporteur
	Dynamics of Atmosphere-Ice-Ocean Interactions in the High-Latitudes 🗹   Rosendal, Norway
Oct 2013	Research Intern
	Geophysical Institute   University of Bergen, Norway
Aug-Sep 2013	Trainee Forecaster
	Forecast and Briefing Service   Main Aviation Meteorological Centre, Vnukovo Airport
Jul 2012	Research Intern
	A.M. Obukhov Institute of Atmospheric Physics   Moscow, Russia