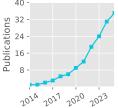
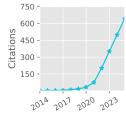
Denis Sergeev

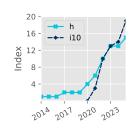
Pronouns: he/him/his Tuniversity of Bristol, UK denis.sergeev@bristol.ac.uk **D** 0000-0001-8832-5288

dennissergeev.github.io









Total Pub. 35 Refereed 35 First Author 8 Citations 643 h-index 15

Dpdated: 12 Aug 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

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

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

Department of Meteorology and Climatology, Moscow State University

Supervisor: Victor Stepanenko

Funding and Awards

Direct Funding, PI Est. Total Value		
2024 Above & Beyond Silver Award University of Exeter	£1000	
2023 Meeting Organisation Funding (Exoclimes VI and ExoSLAM) RAS	£5000	
2022 Undergraduate Student Bursary (awarded; student declined) RAS	£1200	
2017 Best Presentation Award CEEDA Symposium	\sim £ 100	
2016 Travel Bursary Polar Prediction School	\sim £ 1000	
2015 Travel Award High-Latitude Dynamics workshop	\sim £ 1000	
2014 Lord Zuckerman PhD scholarship School of Environmental Sciences, UEA	\sim £ 112000	
2014 Young Scientist Travel Award EGU General Assembly	\sim £ 200	
2014 Russian Academy of Sciences Young Scientist Medal	\sim £ 1000	
Direct Funding, co-I		
2024 UKSA Studentships: Mars Exploration Science	•	
2024 Research Software Engineer Support DiRAC HPC	\sim £ 45000	
Observational Facilities Resources		
2023 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:

How do wind jets and cyclones form in planetary atmospheres?

Planet formation:

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

Model development and intercomparison:

• How do we build robust and reproducible exoplanet models?

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

#25, 28, 31, 32, 33

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

Publications

(preprints in grey) Citations

- **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
- Mak, M. T., **Sergeev, D.**, Mayne, N., Zamyatina, M., et al., 2025, The Impact of Different Haze Types on the Atmosphere and Observations of Hot Jupiters: 3D Simulations of HD 189733b, HD 209458b and WASP-39b, MNRAS

- Penzlin, A. B. T., Booth, R. A., Kirk, J., Owen, J. E., et al. (incl. **Sergeev, D. E.**), 2024, BOWIE-ALIGN: **16** how formation and migration histories of giant planets impact atmospheric compositions, MNRAS
- Sergeev, D. E., Boutle, I. A., Lambert, F. H., Mayne, N. J., et al., 2024, The Impact of the Explicit 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 [2]
- Zamyatina, M., Christie, D. A., Hébrard, E., Mayne, N. J., et al. (incl. **Sergeev, D. E.**), 2024, 12 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 CO₂, CH₄, and haze profiles, MNRAS ☑
- Villanueva, G. L., Fauchez, T. J., Kofman, V., Alei, E., et al. (incl. **Sergeev, D. E.**), 2024, Modeling 8 Atmospheric Lines by the Exoplanet Community (MALBEC) Version 1.0: A CUISINES Radiative Transfer Intercomparison Project, Planet. Sci. J.
- 25 Kirk, J., Ahrer, E., Penzlin, A. B. T., Owen, J. E., et al. (incl. **Sergeev, D. E.**), 2024, BOWIE- 9 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

 Toward Techniques

 1. **Toward Techniques**

 2. **Toward Techniques**

 2. **Toward Techniques**

 3. **Toward Techniques**

 3. **Toward Techniques**

 3. **Toward Techniques**

 3. **Toward Techniques**

 4. **Toward Techniques**

 4. **Toward Techniques**

 4. **Toward Techniques**

 4. **Toward Techniques**

 5. **Toward Techniques**

 5. **Toward Techniques**

 6. **Toward Techniques**

 6. **Toward Techniques**

 6. **Toward Techniques**

 6. **Toward Techniques**

 7. **Toward Techniques**

 7. **Toward Techniques**

 8. **Toward Techniques**

 8. **Toward Techniques**

 8. **Toward Techniques**

 8. **Toward Techniques**

 9. **Toward Techniques**

 9. **Toward Techniques**

 9. **Toward Techniques**

 10. **Toward Techniques**

 11. **Toward Techniques**

 12. **Toward Techniques**

 12. **Toward Techniques**

 13. **Toward Techniques**

 13. **Toward Techniques**

 14. **Toward Techniques**

 15. **Toward Techniques**

 16. **Toward Techniques**

 16. **Toward Techniques**

 16. **Toward Techniques**

 17. **Toward Techniques**

 17. **Toward Techniques**

 18. **Towa
- Mak, M. T., Mayne, N. J., **Sergeev, D. E.**, Manners, J., et al., 2023, 3D Simulations of the Archean **5** Earth Including Photochemical Haze Profiles, J. Geophys. Res.: Atmospheres ☑
- 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 8 Cause Cloud Variability on Tidally Locked Aquaplanets, Planet. Sci. J. ☑
- 21 Eager-Nash, J. K., Mayne, N. J., Nicholson, A. E., Prins, J. E., et al. (incl. **Sergeev, D. E.**), 2023, 3D **5** Climate Simulations of the Archean Find That Methane has a Strong Cooling Effect at High Concentrations, J. Geophys. Res.: Atmospheres

 ✓
- 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- **15** induced chemistry on tidally-locked Earth-like exoplanets, MNRAS

- 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 65 Atmosphere Intercomparison (THAI). II. Moist Cases-The Two Waterworlds, Planet. Sci. J. Z
- 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. 🗗
- 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. ☑
- Sergeev, D. E., Lewis, N. T., Lambert, F. H., Mayne, N. J., et al., 2022, Bistability of the Atmospheric 26 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 **25**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 **17** 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.

 ✓
- 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.

 ✓
- 3 Sergeev, D. E., Renfrew, I. A., Spengler, T., & Dorling, S. R., 2017, Structure of a shear-line polar low, 21 Q. J. R. Meteorol. Soc. 🗹

Conferences and Seminars

Invited Talks

- Jun 2025 Atmospheric dynamics on other planets ☑
 - Durham HPC Days | Durham, UK
- 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
	·

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 ☑
	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 ☑
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' Ľ | 360 VR video (contributor)

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 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 🗹

•	o=
Mar 2023	Challenge of Science Leadership ∠
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