



Participants from our Scalable Computing in Python Training, April 2025.

As the seasons shift, the Arctic Data Center team is reflecting on a spring full of momentum and new connections. From processing big datasets and enhancing our cyberinfrastructure to engaging with researchers across the Arctic, it's been a busy and inspiring few months.

In March, our Community Engagement and Outreach Coordinators, Nicole Greco and Angie Garcia, traveled to Boulder, Colorado, to attend ICARP IV and Arctic Science Summit Week (ASSW). This opportunity was an exciting chance to spark new collaborations and connect face-to-face with the broader Arctic community. Looking ahead to summer, we're focused on continuing improvements to the repository and planning more opportunities to connect and collaborate.

Explore recent highlights from the Arctic Data Center and our wider network below!

Successful Data Science Training Workshops!



It is a great opportunity to provide early career to mid-senior level Arctic researchers with hands-on learning and tools to further support their data science skills. This spring we helped 50 participants strengthen their coding in both R and Python, and received positive admiration from all participants about the investment the Arctic Data Center staff has hosting these trainings and the funding provided by the National Science Foundation (NSF) to help advance the careers of Arctic researchers.

We recapped and reflected on each of these trainings in a [blog](#) to inform our research community about what happened in each week-long training. If you are interested in the [learning curriculum](#), everything is open source and online. In 2026, we anticipate to host only ONE virtual data science training for the researcher community to participate in. We will follow up with more details late this summer for those interested, so stay tuned! Thank you!

All of this was possible thanks to NSF Award #2042102!

Check out the 2025 learning materials

Registration deadline: July 6, 2025

QGreenland-Net Educator Workshop

Do you want to engage your students with real-world data and build skills they can use in their careers? Do you want to use and teach GIS in your classroom? QGreenland invites educators to a dedicated workshop to develop learning resources using QGreenland data.

The workshop will bring together instructors across disciplines to create and adapt learning resources that use Greenland-focused data. The workshop will include training on how to perform basic analyses in QGIS, research-based pedagogical approaches, and how to find additional data for use with QGreenland. This workshop is best suited for formal undergraduate or graduate educators. **Familiarity with QGIS is not required.**

Learn more about the workshop

Submission deadline: July 31, 2025

PSECCO Photo Contest

Do you have photos that highlight your research, fieldwork, or polar adventures?

Participate in the Summer 2025 PSECCO Photo Contest, which has five categories for submission: animals, landscape, perspective, people, and black and white. Prizes will be awarded for the top photo submissions of each category, and honorable mentions will be celebrated.

To participate, please review the contest rules and submit your photos via [this form](#). For more information, please visit the [photo contest page](#). **The submission deadline is July 31, 2025.**



Submission deadline: July 30, 2025

NNA-CO Sessions at AGU25

Abstract submissions are now open for [AGU25](#)! Please consider submitting abstracts to the following two sessions led by the NNA-CO:

1. **Session C008:** Convergence Research in the Arctic: Drawing from Diverse Disciplines and Knowledge Systems to Address Complex Societal Challenges
2. **Session ED005:** Arctic Education & Outreach - Effective ways of engaging diverse learners in Arctic science

Deadline to submit is July 30, 2025 (23:59 EDT)!

Abstracts can be submitted here

Polar STEAM Opportunity for Researchers

[Polar STEAM](#) is currently recruiting



Polar STEAM
Education. Art. Science.

researchers for their next cohorts, specifically for (1) Arctic field research for boreal summer 2026, and (2) virtual collaborations for the Arctic and Antarctic, 2026/27.

They welcome applications from NSF-funded polar researchers across a wide spectrum of research disciplines including social sciences. The Polar STEAM team is also interested in talking with researchers who are submitting NSF proposals for future work and are interested in collaborating with them. For more information, email polarsteam@oregonstate.edu.

Visit application

Partner News & Opportunities

A poster for the 2025 Cyber2A Workshop. At the top, an orange banner reads "Application Deadline Extended to July 14th!". Below this is the Cyber2A logo and the title "2025 CYBER2A WORKSHOP". The main text says "Co-Creating a Shared Framework for Teaching AI and Machine Learning with Applications in Arctic Research". A location box indicates "SANTA BARBARA, CA" and "OCTOBER 20-24, 2025". To the right, it says "Applications are now open for the 2025 Arctic cybertraining workshop! This year's workshop is geared towards Arctic research educators and instructors interested in adopting AI and machine learning in their curriculum." At the bottom, it says "Apply by July 14th at https://forms.gle/a3T9S9e0gppsTb2H87" and "Visit the Cyber2A website at cyber2a.github.io". A QR code is on the right, and a note at the bottom states "This workshop is supported by the National Science Foundation under awards 2230054 and 2230055".

Application Deadline Extended to July 14th!

2025 CYBER2A WORKSHOP

Co-Creating a Shared Framework for Teaching AI and Machine Learning with Applications in Arctic Research

SANTA BARBARA, CA
OCTOBER 20-24, 2025

Applications are now open for the 2025 Arctic cybertraining workshop! This year's workshop is geared towards Arctic research educators and instructors interested in adopting AI and machine learning in their curriculum.

Apply by **July 14th** at <https://forms.gle/a3T9S9e0gppsTb2H87>
Visit the Cyber2A website at cyber2a.github.io

This workshop is supported by the National Science Foundation under awards 2230054 and 2230055

Cyber 2A: AI for Arctic Research

Applications are **OPEN** for the *2025 Scaling Impact: Co-Creating a Shared Framework for Teaching AI and Machine Learning with Applications in Arctic Research* workshop that will take place at the National Center for Ecological Analysis and Synthesis (NCEAS) in **Santa Barbara, CA** from **Oct. 20-24, 2025**.

This year's workshop will bring together AI and Machine Learning practitioners, instructors, and other experts to collaboratively improve and expand upon existing curriculum while designing an extensible framework for delivering training in different course formats.

Learn more about the workshop and submit your application by **July 14th**. For more information about the project, visit the [Cyber2A website](#).

Workshop application



Permafrost Discovery Gateway Webinar

Join the [Permafrost Discovery Gateway](#) on July 3, 2025, for a webinar featuring Dr. Chunli Dai from the University of Florida! She has been using geospatial data to study thaw-related landscape changes and will present the first pan-Arctic volumetric analysis of retrogressive thaw slumps (RTS), identifying over 2,700 active sites using high-resolution elevation models and deep learning. The study offers new insights into soil carbon loss, area-volume scaling, and regional climatic drivers of RTS activity.

Add PDG Webinar Series to your calendar

Resources Worth Exploring

Updated Large Model Output Policy at the Arctic Data Center

This May, we updated [our large model output policy](#) to provide clearer guidance for researchers who are working with larger models. We outlined three considerations the ADC will follow and re-evaluate on a necessary basis with researchers, such as reviewing datasets every 5 years to reassess their continued utility due to storage and cost considerations. If you have any questions, please reach out to our support team at support@arcticdata.io.

[Read more](#)

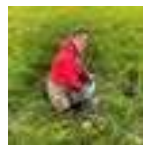
Recent Dataset Highlights

[Visit all Blogs and News](#)

The Arctic Data Center features dataset highlights from Arctic researchers who have contributed to the repository. Each highlight offers a closer look at the data and the scientist(s) behind the work. Explore them all!



New Dataset Using Deep Learning to Predict Permafrost Thaw Damage in the Arctic with Elias Manos



New Dataset and Paper Exploring the Influence of Goose Herbivory on Litter Decomposition in the Yukon-Kuskokwim River Delta, Alaska



Tracking Arctic Tides: A New Database of Tide Elevation Constituents from 1800 through the Present



New Datasets Exploring Small Mammal Impact on Arctic Vegetation with Dr. Laura Gough

Other Opportunities

Postdoctoral Fellowship in AI and Society at the University of Buffalo

The Distinguished Research Fellowship Program seeks PhD graduates from underrepresented groups for postdoctoral experience and training in the [School of Engineering and Applied Sciences](#). To learn more [visit their listing](#); applications are open until filled.

Climate and Cryosphere Open Science Conference 2026

Deadline for early bird pricing ends on November 11, 2025! You can register via [their webpage](#) and submit an abstract before July 31, 2025. They are offering travel grants to students, ECRs, and scientists with permanent base in a low or lower-middle income country.

For more information, please visit their [travel grants application](#).

Machine Learning and Environment Postdoctoral Fellow

The **University of Colorado Boulder's Computer Science Department and ESIL** (within CIRES) are hiring a Postdoctoral Research Scholar in Machine Learning and/or Artificial Intelligence with applications in Environmental Data Science. Apply by **July 15, 2025** for full consideration. To learn more information, visit [the job listing](#).



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