

NFDI4Earth

Deliverable D1.4.2

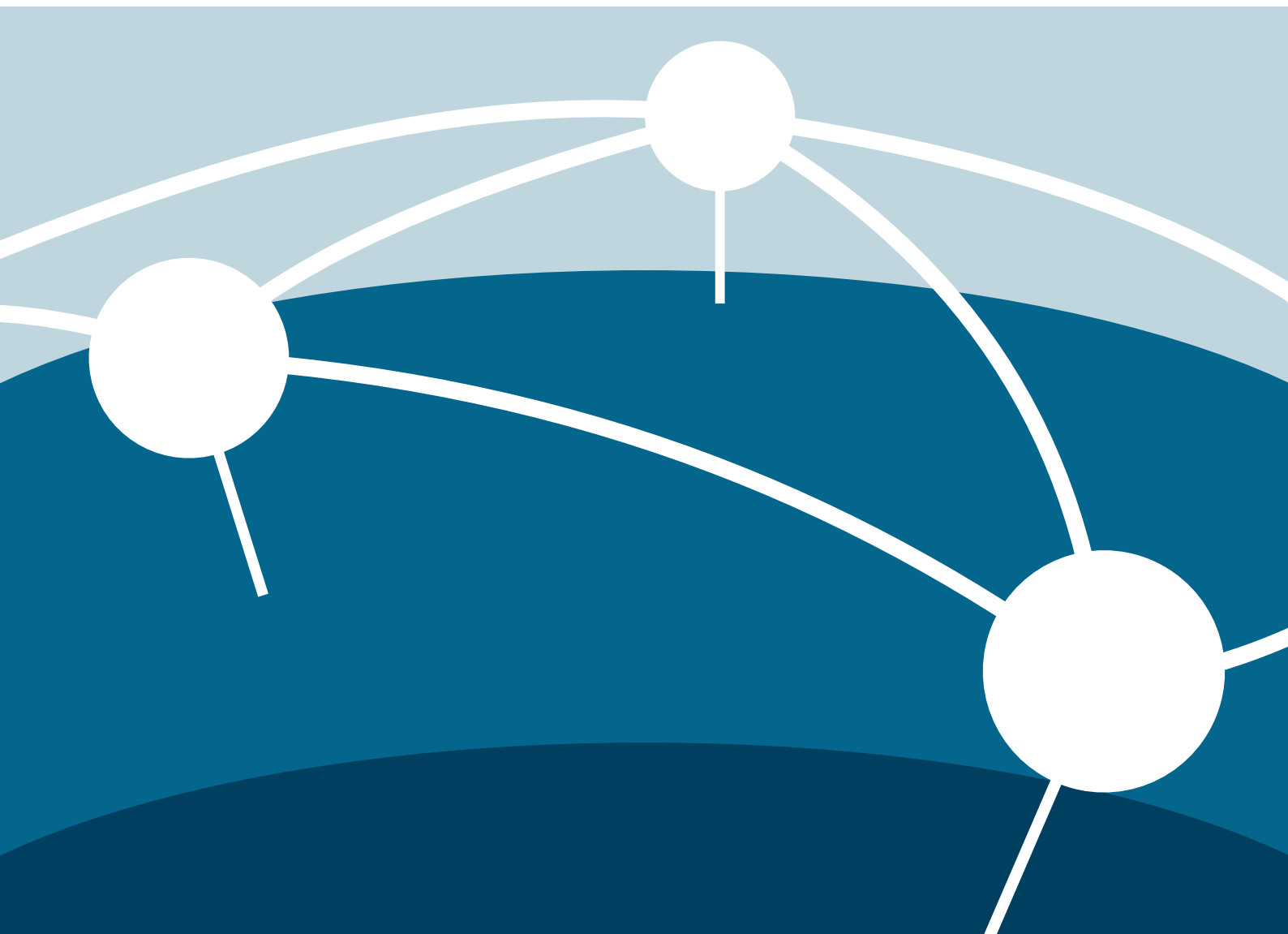
Academy concept is refined; fellows have been recruited, and Academy representatives are elected

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2022-10

DOI: [10.5281/zenodo.7908364](https://doi.org/10.5281/zenodo.7908364)

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Citation Hildegard Gödde, Effi-Laura Drews, Jonas Kuppler, Konstantin Ntageretzis, Kristin Sauerland, Gouvain Wiemer. 2023. *Academy concept is refined; fellows have been recruited, and Academy representatives are elected (NFDI4Earth Deliverable D1.4.2)*. Zenodo. <https://doi.org/10.5281/zenodo.7908364>

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Acknowledgement

This work has been funded by the German Research Foundation (DFG) through the project NFDI4Earth (DFG project no.460036893, <https://www.nfdi4earth.de/>) within the German National Research Data Infrastructure (NFDI, <https://www.nfdi.de/>).

Executive summary

Our first call for Academy Fellows resulted in 81 applications of early career scientists from various German universities or non-university research institutions. A selection committee composed of nine Earth System and Data Science experts chose 39 Fellows for our first Academy Cohort in a two-step selection procedure. First, each application was reviewed by five experts according to five scoring categories, including motivation, interdisciplinarity with Data Science, and project ideas. Second, the successful applicants were selected in a panel discussion based on the scoring results. We are very thankful to the members of our scientific selection committee for their commitment and engagement: Georg Bareth (Universität zu Köln), Wolfgang zu Castell (Deutsches GeoForschungsZentrum), Fabian Gans (Max-Planck-Institut für Biogeochemie), Jens Greinert (GEOMAR), Dominik Hezel (Goethe-Universität Frankfurt), Nicole Richter (RWTH Aachen), Márk Somogyvári (Humboldt-Universität zu Berlin), Jana de Wiljes (Universität Potsdam) and Oliver Zielinski (Universität Oldenburg). With the successful start of our first cohort in November 2022, the Fellows selected two Fellows representatives.

The details of the refined Academy program will be developed in an agile bottom-up process in close collaboration with the Fellows and their representatives. The overview of the refined Academy program can be found on the following webpage:

<https://www.nfdi4earth.de/2participate/academy/academy-program>

List of Academy Fellows including representatives

- Amirpasha Mozaffari - Forschungszentrum Jülich
- Anne-Karin Cooke - Bundesanstalt für Geowissenschaften und Rohstoffe
- Lena Ricarda Happ - AWI
- Verena Maleska - Leibniz Insitut für Ökologische Raumentwicklung (**Fellow representative**)
- Anna Pereponova - ZALF
- Eva Wickert - RWTH Aachen
- Josefine Umlauf - University Leipzig
- Maria Isabel Arango - University of Potsdam
- Mohamad Hakam Shams Eddin - University of Bonn
- Nils Chudalla - RWTH Aachen
- Sweety Mohanty - GEOMAR
- Till Fohrmann - University of Bonn
- Fabian Mockert - KIT
- Julian Alberto Giles - University of Bonn
- Lukas Jonkers - MARUM
- Malte Mues - TU Dortmund
- Meghna Sengupta - ZMT Bremen
- Melanie Stammler - University of Bonn
- Nils Weitzel - University of Tübingen
- Omar Seleem - University of Potsdam
- Paul Michaelis - UFZ
- Stenka Vulova - TU Berlin
- Taylor Smith - University of Potsdam
- Timothy Kodikara - DLR
- Yannick Burchart - University of Cologne
- Anya Makushkina - GFZ
- Ann-Kathrin Margarete Edrich - RWTH Aachen

- Bahareh Kamali - University of Bonn
- Fernand Baguket Eloundou - Forschungszentrum Jülich
- Johann Maximilian Zollner - TU München
- Katrin Dohmen - TU Berlin
- Vincent Sobottke - FU Berlin
- Amalie Skalevag - University of Potsdam
- Buse Onay - Forschungszentrum Jülich
- Esther Bosch - DLR
- Inge Wiekenkamp - GFZ
- Jan Sodoge - UFZ
- David Ernst - Constructor University Bremen
- Melina Kerstin Knoke - University of Oldenburg (**Fellow representative**)

Academy program

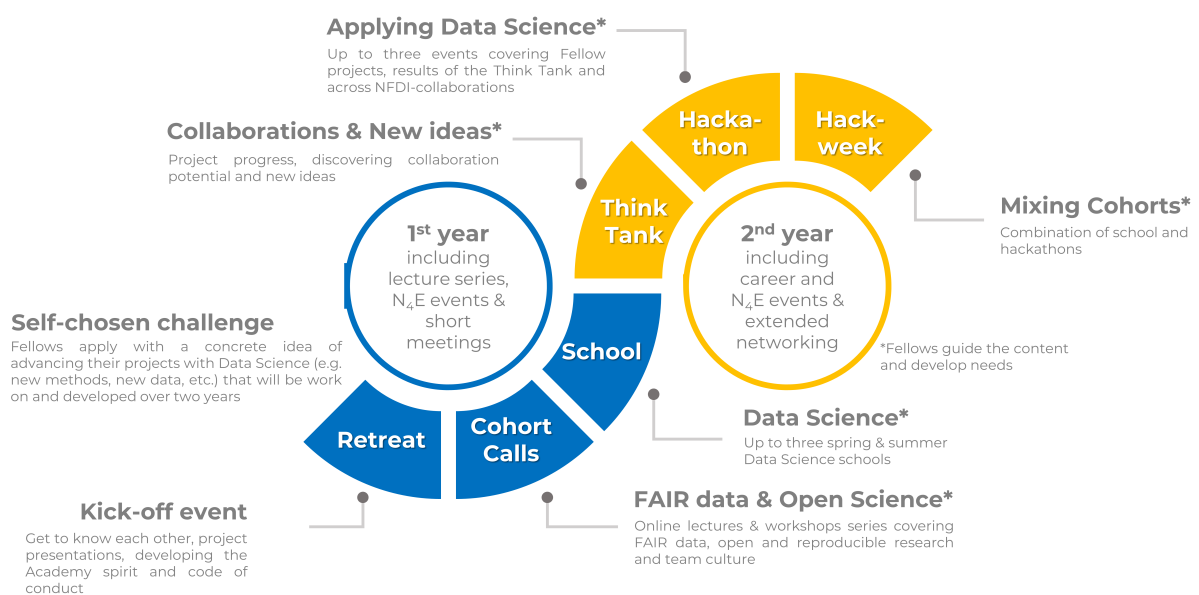
Source: Website <https://www.nfdi4earth.de/2participate/academy/academy-program>

NFDI4Earth Academy

Your training network to bridge Earth System and Data Science

Program details

The main objective of the two-year Academy program is to foster networking, training, and collaborative research of doctoral and postdoctoral researchers bridging Earth System and Data Science. Our program deviates from traditional graduate school curricula in two ways: First, we focus on peer-mentoring rather than teacher-based learning. Secondly, we provide a core event structure (three per year), of which the content will be determined by the fellows in an agile bottom-up process. This way, we ensure that the events match the fellows' training needs. In addition to the core events, fellows will have the opportunity to organize and host additional workshops, meetings, and other events - with our support. We also explicitly focus on linking fellows to existing training opportunities that are needed or helpful. Furthermore, we ensure strong integration and linkage to other relevant NFDI4Earth developments.



Anticipated Academy program

Below, we describe the anticipated Academy program elements (in- person, hybrid, or virtual). However, given the agile bottom-up structure of the Academy, changes may occur.

Core events (Year 1)

The first year of the Academy will focus on research data management and Data Science skills and starts with a two-day Kick-off retreat (in- person, depending on the pandemic situation). During this retreat, fellows will get to know each other, their research projects, and their interests in Data Sciences. Further, together with the coordinators, they will develop a code of conduct and a roadmap for the Academy to create a motivational and inspiring working environment. In the span of two months during winter, there will be a bi-weekly virtual workshop series focusing on research data management, reproducibility, and Open Science. The workshops will be designed to be engaging with fruitful discussion and active participation, during which fellows describe their current practices and a pathway forward. For training in Data Science, we will host up to three in-person/hybrid spring or summer schools. The fellows determine the thematic focus of the events to fulfill their specific learning and training opportunities.

Core events (Year 2)

In the second year, the core program focuses on collaborative and networking events. We will host “Think tank” events designed to brainstorm and develop synergies between fellows projects, potential collaborations, and new ideas. During Hackathons (up to three in year 2) fellows can work on new ideas and/or their own projects, depending on the fellows preferences. For these events, early career scientists from other NFDI consortia, such as NFDI4Biodiversity or KonsortSWD, will be invited to join and explore cross-link topics. The final core event will be a joint Hackweek) of the 1st and 2nd cohort to ensure knowledge transfer between both. By combining elements of schools and Hackathons, these meetings foster community building, education in data science methods, and immersion in collaborative project work.

Additional events & possibilities

Throughout the program, fellows can join short (half or full day) informal meetings every three to four months to present and discuss their project progress with peers. Further, all fellows are invited to join NFDI4Earth events, such as plenary meetings, to present their research and be up-to-date on the developments of the NFDI4Earth. Furthermore, we provide access to a broad range of external training opportunities, such as the Helmholtz Academy for Information and Data Science (HIDA) or DataTrain (Uni Bremen Research Alliance).

Previous events

- Academy Kick-off 1st Cohort 30th - 2nd December 2022 in Buchenau. Summary: <https://www.nfdi4earth.de/2participate/academy/academy-program?view=article&id=324&catid=9>