

## Latest Highlights

### Prices/Awards/Funding

*"Data is like garbage. You'd better know what you are going to do with it before you collect it."*  
– Mark Twain, Author (1835-1910)

- **Helmholtz-Doctorate Award for HEIBRiDS graduate Jannes Münchmeyer**  
HEIBRiDS graduate Jannes Münchmeyer has received the [Helmholtz Association's doctoral prize](#) for his thesis "**Machine learning for fast and accurate assessment of earthquake source parameters**". Each year, Helmholtz awards eleven of the approximately 10,000 Helmholtz doctoral students with the prize for the best and most original doctoral theses. In his doctorate at Helmholtz Centre Potsdam – GFZ German Research Centre for Geosciences and HU Berlin, Jannes Münchmeyer used artificial intelligence to understand earthquakes and provide early warning of strong tremors.



Bild: David Marschalsky

- **DLR Hackathon "Coding Copernicus" prize for Tabea Rettelbach and Veronika Döpper**  
On August 24<sup>th</sup> and 25<sup>th</sup> 2023, HEIBRiDS PhD researchers Veronika Döpper and Tabea Rettelbach participated in the [Coding Copernicus Hackathon](#), organized by the **DLR in Bonn**. The Hackathon sets a focus on Earth Observation challenges and the use of the free and open Copernicus datasets. Veronika and Tabea were part of a team working on optimizing the ecological use of Verkehrsnebenflächen (secondary transport areas) around German highways and railroads using remote sensing. With their solution, they won the **community prize**.



Bilder: Alexandra Förster, DLR

**Congratulations!**

### New Publications

- G. Pfalz, B. Diekmann, J-C. Freytag, and B.K. Biskaborn (2023). **Effect of temperature on carbon accumulation in northern lake systems over the past 21,000 years.** *Front. Earth Sci., Sec. Quaternary Science, Geomorphology and Paleoenvironment*, 11. <https://doi.org/10.3389/feart.2023.1233713>
- Groenke, B., Langer, M., Nitzbon, J., Westermann, S., Gallego, G., and Boike, J. (2023). **Investigating the thermal state of permafrost with Bayesian inverse modeling of heat transfer.** *The Cryosphere*, 17, pp. 3505–3533. <https://doi.org/10.5194/tc-17-3505-2023>
- Hartono, N.T.P., Köbler, H., Graniero, P. et al. (2023): **Stability follows efficiency based on the analysis of a large perovskite solar cells ageing dataset.** *Nat Commun* 14, 4869. <https://doi.org/10.1038/s41467-023-40585-3>
- A. Kapp, J. Hansemeyer, and H. Mihaljević (2023). **Generative Models for Synthetic Urban Mobility Data: A Systematic Literature Review.** *ACM Computing Surveys*. <https://doi.org/10.1145/3610224>

### Recent Presentations at Conferences

- Groenke B., Langer M., Nitzbon J., Westermann S., Gallego G., Boike J. (2023). **Explaining uncertainty in the thermal state of permafrost with Bayesian inversion of hydrothermal dynamics.** *6th European Conference on Permafrost*, 18-22 June 2023, Puigcerdà, Catalonia, Spain.
- Groenke B., Langer M., Gallego G., Boike J. (2023). **Applications of physic-informed machine learning in accelerating dynamical models of permafrost processes.** *IUGG23 General Assembly*, Berlin, 11-20 July, 2023.
- T. M. Pentimalli (2023). **3D molecular reconstruction of a human tumor at single-cell resolution reveals invasion dynamics and predicts mechanism-based, personalized therapeutic targets.** *ISREC-SCCL Symposium 2023: Precision Oncology*, Lausanne/Ecublens, 21-24 August, 2023 (Short Talk).
- D. Collin, S. Bianco, G. Gallego, Y. Shprits (2023). **Forecasting solar wind speed from solar EUV images.** *XXVIII General Assembly of the International Union of Geodesy and Geophysics (IUGG)*, Berlin, Germany, 11-20 July 2023 (Oral presentation). <https://doi.org/10.57757/IUGG23-2070>

### PhD Theses

- **Leon Weber Genzel** will defend his thesis on **Text Mining for Pathway Curation** on September, 7<sup>th</sup>, 2023 at the Department for Computer Science of Humboldt-Universität zu Berlin, Adlershof.

- **Thorren Kirschbaum** handed in his PhD Thesis **On the Electronic Structure of Nanodiamonds for Photocatalysis** at Freie Universität Berlin, Department of Mathematics and Computer Science in August 2023. – **Congratulations!**

## Announcements

### New HEIBRiDS Website

Together with the websites of the other **HIDA Information & Data Science Schools**, the [HEIBRiDS website](#) has been renewed. If you haven't visited it yet, check it out!

### Open Calls for HIDA Exchange programs

- Exchange program with Norway [NORA](#) (open until 12 September 2023),
- HIDA [Trainee Network](#) (open until 15 October 2023),
- Helmholtz [Visiting Researcher](#) Grant (open until 15 October 2023).

### Workshop Data Visualization using Python

On September 11-13, 2023, 09:00-13:00, the **Online Workshop on Data Visualization using Python** for PhD students of HEIBRiDS and HIDA takes place. There are still single places available. If you are interested, please contact [Eirini Kouskoumvekaki](#). Find more info [here ...](#)

### HEIBRiDS mailing lists

As a reminder, if you want to **share information** with the **HEIBRiDS community**, you can do so via these two moderated lists:

- **PhD researchers:** [heibridsphd@list.mdc-berlin.de](mailto:heibridsphd@list.mdc-berlin.de)
- **HEIBRiDS PIs:** [heibridspi@list.mdc-berlin.de](mailto:heibridspi@list.mdc-berlin.de)

### Training offers from our partners

- Training offers from the **Humboldt Graduate School** and the **Dahlem Research School** can be found [here](#) and [here](#). For registration, please follow the registration link for each individual workshop.
- Training offers from **HIDA**, our sister-schools **HIDSS** and **HIFIS** can be found [here](#), [here](#) and [here](#).
- The Lecture Series of our partner [FONDA](#) is taking place every **Tuesday from 14:00 to 15:00**. You can find the schedule [here](#).

**The HEIBRiDS Winter Semester will start on October 18, 2023, with the PhD Seminar at 15:00. Enjoy the lecture-free time!**