HEIBRIDS

HELMHOLTZ EINSTEIN INTERNATIONAL
BERLIN RESEARCH SCHOOL IN DATA SCIENCE

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NEWS

Latest Highlights

Recent Presentations at Conferences

"In my opinion, one of the most important soft skills for a data scientist is communication."

- ChatGPT's opinion on the most important soft skill for a data scientist

- Veigel, N., Kreibich, H., de Bruijn, J., Aerts, J. C. J. H., and Cominola, A. (2024). **Correlation of Social Media-Driven Risk Perception and Flood Insurance Uptake for Floods in the US**. EGU General Assembly 2024, Vienna, Austria, 14–19 April 2024, EGU24-11646.
  https://doi.org/10.5194/egusphere-egu24-11646
- Groenke, B., Aalstad, K., Pirk, N., Westermann, S., Zscheischler, J., Gallego, G., and Boike, J. (2024). **Simulation-based inference as a paradigm for scientific machine learning in the cryosphere and beyond**. EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-16847. https://doi.org/10.5194/egusphere-egu24-16847
- J. Schaible, H. Winarto, D. Yoo, L. Zimmermann, A. Wessels, K. Jäger, B. Bläsi, S. Burger, C. Becker. **On aesthetical appearance of colored perovskite solar modules** (Oral presentation). SPIE Photonics Europe, Strasbourg, France, 8-12 April, 2024.
- J. Schaible, H. Winarto, D. Yoo, L. Zimmermann, A. Wessels, K. Jäger, B. Bläsi, S. Burger, C. Becker. **On aesthetical appearance of colored perovskite solar modules** (Poster presentation). 16th Annual Meeting Photonic Devices (AMPD2024), Berlin, Germany, 17-19 April, 2024.

Research Stay

HEIBRiDS PhD candidate **Brian Groenke** is currently working at the UFZ Leipzig in the research group of Jakob Zscheischler in a project on machine-learned based emulators for hydrological modeling. After his temporary research stay, he will continue his work at Alfred-Wegener-Institute from October 1, 2024, on.

HEIBRIDS Project Call

The **call for doctoral project proposals** **for the new round of HEIBRiDS PhD positions**, starting in January 2025, is now open (until May 31, 2024)! We have set up a **Mattermost channel** for the purpose of matchmaking for tandem supervision (for PIs). If you would like to be added, please contact the HEIBRiDS office.

New HEIBRiDS Faces

A new associated PhD student joined HEIBRiDS. **Mark Melzer** is a new associate student and is working on the project: **"Development of a Flow Cytometry Single Cell Atlas for Infectious Diseases"**, supervised by Lisa Buchauer (Charité Universitätsmedizin).

We wish him a great start!

PhD Dissertations

On April 29, 2024, HEIBRiDS PhD **Gregor Pfalz** successfully defended his thesis at the University of Potsdam on: **"Advancing Knowledge of Arctic Lake System Dynamics: A Data-Driven Perspective on Spatiotemporal Patterns"** (supervised by Bernhard Diekmann, AWI; Boris Biskaborn, AWI; Johann-Christoph Freytag, HU).

Congratulations!

Latest HEIBRiDS activities

- The Chair of Smart Water Networks, with HEIBRiDS PI Andrea Cominola and PhD Nadja Veigel, participated in the **Girl's Day on 25 April**, 2024, with the project **"A day with TU Berlin: Spongebob City: What is a sponge city - and why is it so important?"**.
- **DESY and HU Berlin – Collaborative student project:** Last semester, HEIBRiDS student Hermann Stolte organized a collaborative student project between DESY and HU Berlin, where undergraduate students in computer science carried out a project as part of their curriculum, tackling challenges in data management for gamma-ray astronomy. A few weeks ago, the students completed their project successfully and presented their results at DESY and HU:

- HEIBRiDS Partner **GFZ** is involved a project on a new foundation model for the carbon cycle (Head: HEIBRiDS PI Martin Herold) which is funded by an investment program of Helmholtz for research on AI for foundational models.

HEIBRiDS Retreat

On Tuesday, **April 9** and Wednesday **April 10**, 2024, we had the **HEIBRiDS retreat** at **Märkisches Gildehaus in Caputh at Schwielowsee**. Find the program here.

Announcements

- Two **job announcements** by the **Chair of Smart Water Networks** at **TU Berlin** and the **ECDF** (HEIBRiDS PI Andrea Cominola) for working on a proposal to establish a Research Training Group (RTG) on "Technology and Data Intelligence for Sustainable Water Infrastructure" (see also on LinkedIn):
  - Full time Post-doc/Research assistant
  - Student worker (60 h/month)
- The **Summer School on Research Software Engineering**, hosted by Karlsruhe Institute of Technology from September 23 to 27, 2024, is open for application until **May 17**.

HIDA Lecture Series

Join the next lecture from the series on AI and LLMs with **Steffen Albrecht from the Office of Technology Assessment at the German Bundestag (TAB)** on **May 7**, 2024. **Contextualizing LLMs – What are the social and ethical implications?**

HEIBRiDS Lecture Series and PhD Seminar

After we visited the exhibition "After Nature" at the Humboldt Forum on April 17, 2024, with the HEIBRiDS PhD seminar for the start of the semester, we will continue with our **Lecture Series** on **May, 15, 2024**, with a presentation by **Prof. Dr. Helena Mihaljević** (HTW/ECDF) at the ECDF, 16:00. The PhD seminar begins at 15:00, as usual.

Communication/Social Media

- Follow **HEIBRiDS** on X
- Check out the new **Instagram account of the ECDF**: @ecdigitalfuture

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** can be found here.