HEIBRIDS
HELMHOLTZ EINSTEIN INTERNATIONAL BERLIN RESEARCH SCHOOL IN DATA SCIENCE

Issue 41
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NEWS

Latest Highlights

Prices/Awards/Funding

- **DAAD funding for Brian Groenke**
  Brian Groenke was accepted for the **DAAD scholarship program** with his project "Large scale inverse modeling of permafrost processes using heterogeneous data sources". He is visiting the group of Prof. Sebastian Westermann at the **University of Oslo** from October 9th to December 22nd, 2023.

- **Humboldt-University Travel Grant for Abhay Mehta**
  Abhay Mehta received a **Humboldt-University Travel Grant for Short-term Activities of PhDs** to attend the **H.E.S.S. Collaboration Meeting in Bordeaux**, France from 24-29 September 2023.

Congratulations!

New Publications

- Celikkan E., Saberioon M., Herold M., Klein N. (2023). **Semantic Segmentation of Crops and Weeds with Probabilistic Modeling and Uncertainty Quantification**. *Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV) Workshops*, 2023, pp. 582-592. Click here …

- A. Kotobi, K. Singh, D. Höche, S. Bari, R. Meißner, A. Bande (2023). **Integrating Explainability into Graph Neural Network Models for the Prediction X-ray Absorption Spectra.** *J. Am. Chem. Soc.*, 145, 22584. https://doi.org/10.1021/jacs.3c07513

- T. Rettelbach, I. Nitze, I. Grünberg, J. Hammar, S. Schäffler, D. Hein, M. Gessner, T. Bucher, J. Brauchle, J. Hartmann, T. Sachs, J. Boike, and G. Grosse (2023). **Aerial imagery datasets of permafrost landscapes in Alaska and northwestern Canada acquired by the Modular Aerial Camera System**. *PANGAEA.* https://doi.pangaea.de/10.1594/PANGAEA.961577.

- T. Rettelbach, I. Nitze, I. Grünberg, J. Hammar, S. Schäffler, D. Hein, M. Gessner, T. Bucher, J. Brauchle, J. Hartmann, T. Sachs, J. Boike, and G. Grosse (2023). **Super-high-resolution aerial imagery datasets of permafrost landscapes in Alaska and northwestern Canada** (preprint). *Earth System Science Data Discussions,* pp. 1-35. https://doi.org/10.5194/essd-2023-193.

Recent Presentations at Conferences

- T. Rettelbach, K. Heidler, N. Lehmann, I. Nitze, M. Langer, X. Zhu, J-C. Freytag, G. Grosse, D. Kainmüller. **Cross-resolution image segmentation for mapping smallest ponds in the Arctic**. (Poster presentation), *AI4EO Symposium 2023*, Munich, Germany, 9-10 October 2023.
- Mehta, A. (2023). **Machine Learning for Imaging Atmospheric Cherenkov Telescope (IACT) Background Rejection**. H.E.S.S. Collaboration Meeting in Bordeaux, France, 24-29 September 2023.

News on HEIBRiDS PIs

HEIBRiDS PI Dr. **Annika Bande**, formerly PD at Freie Universität Berlin, became professor at the **Leibniz University Hannover** in the Institute of Inorganic Chemistry and the cluster of excellence PhoenixD starting September 1, 2023. Her **group "Theory of electron dynamics and spectroscopy" at the Helmholtz-Zentrum Berlin** prevails as a joint research group for the next five years. In Hannover a position will be available for data scientific solutions to chemistry questions.

Announcements

Workshop: Intercultural Communication & Awareness

On **November 22**, **2023**, 9:30-17:45, the HEIBRiDS bridge cohort and interested associates will take part in a workshop for Intercultural Communication & Awareness at the ECDF together with PhD students from the Graduate School of BIFOLD (TU Berlin).

Helmholtz Data Science Career Day

HIDA is organising an online, Helmholtz-wide Career Day for Data Science & IT on **November 22, 2023**. If you are looking for data science talents or are a data science talent yourself that is looking for the next career move, make sure to join the event by registering here.

Joint PhD Colloquium with Data Science +X

On **November 29**, **2023** the HEIBRiDS PhD seminar and Lecture at the ECDF will have the format of a **joint PhD Colloquium** with the Graduate School of the Data Science +X Research Center. (14:30-17:15) - We are looking forward to the PhD presentations and networking! If you are interested in participating, please contact sandra.pravica@tu-berlin.de

HEIBRiDS HIDA Lecture

On **December 13**, **2023**, 16:00, Nathan Kutz from Washington University will deliver the HIDA Lecture for HEIBRiDS at the ECDF on "The future of governing equations". Save the date! For online or on-site participation, please register: sandra.pravica@tu-berlin.de

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
- **HEIBRiDS PIs**: 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.](#)