



# HEIBRIDS

HELMHOLTZ EINSTEIN INTERNATIONAL  
BERLIN RESEARCH SCHOOL IN DATA SCIENCE

Issue 33

November/  
December 2022

# NEWS

## Latest Highlights

### New Publications and Preprints

*“The next Darwin is more likely to be a data wonk than a naturalist wandering through an exotic landscape.”*

– **David Weinberger**  
Author and Harvard University Affiliate

- A. Kapp, S. Nuñez von Voigt, H. Mihaljević and F. Tschorsch (2022). **Towards mobility reports with user-level privacy**. *Journal of Location Based Services*, 21 Nov 2022.  
<https://doi.org/10.1080/17489725.2022.2148008>
- F. Buchner, T. Kirschbaum, A. Venerosy, H. Girard, J.-C. Arnault, B. Kiendl, A. Krueger, K. Larsson, A. Bande, T. Petit, C. Merschjann (2022). **Early dynamics of the emission of solvated electrons from nanodiamonds in water**. *Nanoscale*, 01. Nov 2022.  
<https://doi.org/10.1039/D2NR03919B>
- Weber, L., Sängler, M., Garda, S., Barth, F., Alt, C., & Leser, U. (2022). **Chemical–protein relation extraction with ensembles of carefully tuned pretrained language models**. *Database*, Volume 2022.  
<https://doi.org/10.1093/database/baac098>
- C. Utama, C. Meske, J. Schneider, R. Schlatmann, C. Ulbrich (2023). **Explainable artificial intelligence for photovoltaic fault detection: A comparison of instruments**. *Solar Energy*, Volume 249, pp. 139–151.  
<https://doi.org/10.1016/j.solener.2022.11.018>
- Veigel, N., Kreibich, H., & Cominola, A. (2022). **A Gradient Boosting Approach to Identify Behavioral and Policy Determinants of Flood Resilience in the Continental US**. *IFAC-PapersOnLine*, Volume 55, Issue 33, pp. 85–91).  
<https://doi.org/10.1016/j.ifacol.2022.11.014>

### Recent Presentations at Conferences

- J. Bader, K. Styp-Rekowski, Leon Döhler, Sören Becker, Odej Kao. **Macaw: The Machine Learning Magnetometer Calibration Workflow**. (Oral Presentation), *IEEE International Conference on Data Mining*, Orlando, Florida (USA), 28 November – 1 December 2022.

### New HEIBRIDS faces

Two more PhD students joined HEIBRIDS:



**Veronika Döppler** will be working on the project: “Tracing 3-D high latitude environmental change with billions of remotely sensed points”, supervised by Ulrike Herzsuh (AWI), Guido Grosse (AWI) and Birgit Kleinschmit (TU).



**Alex von Canal** is a new associate student and will be working on the project: “Physics informed Machine Learning for LIBS spectra in Planetary Exploration”, supervised by Heinz-Wilhelm Hübers (DLR).

**We wish them a great start!**

## **Announcements**

### **Available places: BUA retreat**

For candidates in an early stage of their PhD the retreat offered by the **Berlin University Alliance** might be interesting. There are two dates for the retreat in March, one will be conducted in English the other in German. The course is free for all PhDs enrolled at a BUA University. You can find further information [here](#).

### **Training offers from our partners**

- J. 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](#).

**We wish you happy holidays!**