

"We need the ability to not only have high-performance models, but also to understand when we cannot trust those models."

- **Alexander Amini**, MIT Computer Science and Artificial Intelligence Laboratory (CSAIL)

Latest Highlights

New Publications

- M. Kittner, M. Lamping, D. Rieke, J. Götze, B. Bajwa, I. Jelas, G. Rüter, H. Hautow, **M. Sängler**, Habibi, et al. (2021). **Annotation and Initial Evaluation of a Large Annotated German Oncological Corpus**. *JAMIA Open*, 4(2), ooab025. <https://doi.org/10.1093/jamiaopen/ooab025>
- G. Pfaltz, B. Diekmann, J.-C. Freytag, and B.K. Biskaborn (2021). **Harmonizing heterogeneous multi-proxy data from lake systems**. *Computers & Geosciences*. <https://doi.org/10.1016/j.cageo.2021.104791>
- J. Münchmeyer, D. Bindi, U. Leser and F. Tilmann (2021). **Earthquake magnitude and location estimation from real time seismic waveforms with a Transformer Network**. *Geophysical Journal International*, 226(2), 1086-1104. <https://doi.org/10.1093/gji/ggab139>

New Pre-prints

- J. L. Rumberger, **X. Yu**, **P. Hirsch**, M. Dohmen, V. E. Guarino, A. Mokarian, L. Mais, J. Funke, and D. Kainmüller (2021). **How Shift Equivariance Impacts Metric Learning for Instance Segmentation**. [arXiv:2101.05846](https://arxiv.org/abs/2101.05846)

Recent Presentations at Conferences

- **E. Robertson**, L. Jaruingue, L. Messner, L. Esguerra, G. Gallego, K. Lüdge, and J. Wolters. **A Scheme for Optical Reservoir Computers with Atomic Memory**. *Poster presentation at the Hot Vapor Workshop*, Stuttgart/Online, 22-24 March 2021.
- **M. Saenger**, **L. Weber**, and U. Leser. **WBI at MEDIQA 2021: Summarizing Consumer Health Questions with Generative Transformers**. *BioNLP Workshop - MEDIQA*, 11 June 2021. <https://www.aclweb.org/anthology/2021.bionlp-1.9.pdf>
- **F. van Geffen**, B. Heim, U. Herzs Schuh, L. Pestryakova, E. Zakharov, R. Hänsch, B. Demir, B. Kleinschmit, M.Förster, and S. Kruse. **SiDro Forest: Siberian Drone-Mapped Forest Inventory**. *Arctic Science Summit Week, Portugal/Online*, 19-26 March 2021.
- **F. van Geffen**, B. Heim, U. Herzs Schuh, L. Pestryakova, E. Zakharov, R. Hänsch, B. Demir, B. Kleinschmit, M.Förster, and S. Kruse. **SiDro Forest: Siberian Drone-Mapped Forest Inventory**. *EGU General Assembly*, Online, 19-30 April 2021, EGU21-15106. <https://doi.org/10.5194/egusphere-egu21-15106>
- **G. Pfalz**, B. Diekmann, J.-C. Freytag, and B.K. Biskaborn. **Harmonizing heterogeneous multi-proxy data from Arctic lake sediment records**. *EGU General Assembly*, Online, 19-30 April 2021, EGU21-9401. <https://doi.org/10.5194/egusphere-egu21-9401>

- **Veigel, N., Kreibich, H., and Cominola, A. Mining Flood Insurance Big Data to Reveal the Determinants of Humans' Flood Resilience.** *EGU General Assembly*, Online, 19–30 April 2021, EGU21-3042, <https://doi.org/10.5194/egusphere-egu21-3042>
- **S. Agarwal, N. Tosi, P. Kessel, S. Padovan, D. Breuer and G. Montavon. Towards constraining Mars' thermal evolution using machine learning,** *EGU General Assembly*, Online, 19039 30 April 2021, EGU21-4044, <https://doi.org/10.5194/egusphere-egu21-4044>
- **Gimm, T., Wang, X., Palczynski, K., Bande, A., and Dzubiella, J. Nanodiamond-Adsorbate Interactions studied by DFT.** *Presentation at the Bunsen-Tagung 2021 – Multi-Scale Modelling & Physical Chemistry of Colloids*, Online, 10-12 May 2021.

Awards/Prizes

HEIBRiDS doctoral student Leon Weber and associated doctoral student Mario Sanger participated in the [MEDIQA Shared Task \(Task 1\)](#) and their contribution achieved a superb second position among 23 participating teams.

Announcements / Upcoming Events

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** and **HIFIS** can be found [here](#) and [here](#).

FAIR Festival 2021

Celebrate the FAIR (Findability, Accessibility, Interoperability, and Reuse of digital assets) shift in data science and pave the way for future activities at the **FAIR Festival 2021** from **June 21 – 23, 2021**. You can find further information here:

<https://www.go-fair.org/events/fair-festival-2021/>

AI-Hero Hackathon: Save the date

Our sister school HIDSS4Health is planning the **1st AI-Hero Hackathon on Energy-efficient AI** for **28-30 September 2021**. It will be virtual and the focus will be on applications from Health and Energy. Registration will open soon and more information will follow.

Interesting things to click on

- ***Coded Bias***, an American documentary and “eye-opening account of the dangers of A.I.” (Vijaysree Venkatraman, *New Scientist*), is now available on [Netflix](#). Read the NY Times movie review [here](#).
- The [Algorithmic Justice League](#) is building a movement towards equitable and accountable AI.
- [The Hitchhiker’s Guide to AI Ethics](#), a three-part series exploring ethics issues in Artificial Intelligence by B Nalini.
- HEIBRiDS doctoral student Nadja Veigel submitted a [drawing](#) related to her research to the Consilience Sci-Art special issue on Geosciences.