HarSval workshops

Scientists as knowledge brokers and better science management as a synergy effect of the Polish-Norwegian collaboration

Part II. Oslo (3-4.10.2024)

Advancing Polar Science: Funding Strategies, International Collaboration, and AI Innovations

The HarSval project workshop, to be held in Oslo on October 3-4, 2024, will consist of two thematic modules. The first module will cover principles, mechanisms, and tools for research funding, management of international scientific projects, principles of fund allocation, strategic planning, feedback and transparency in research, building interdisciplinary research networks, and international scientific collaboration.

The second module will be dedicated to the use of artificial intelligence in polar research. Invited experts will present the latest achievements in this field and demonstrate the versatility of artificial intelligence and machine learning applications in polar research. Additionally, participants will gain knowledge on the legal and ethical use of AI in science and will undergo training in prompting ChatGPT.

The HarSval project workshop will feature an intensive and comprehensive program structured into two thematic modules, each designed to provide participants with in-depth knowledge and practical skills crucial for advancing scientific research and collaboration. These workshops are specifically addressed to the research community from partner institutions of the HarSval project from Poland and Norway, with a special focus on early career researchers.

03.10.2024
12.00 – Opening of the workshop
12.15 - 13.00 – Lunch
13.00 - 14.30 – Workshop
14.30 - 15.00 – Coffee break
15.00 - 16.00 – Workshop

04.10.2024
9.00 - 10.30 – Workshop
10.30 - 11.00 – Coffee break
11.00 - 12.00 – Workshop
12.00 – Lunch and departure of participants

Workshop location: www.forskningsparken.no/conference-centre
Accommodation: Thon Partner Hotel Ullevaal Stadion
www.thonhotels.com/our-hotels/norway/oslo/thon-hotel-ullevaal-stadion

Our Experts:

Barbara Świątkowska is a programme manager in the EEA and Norway Grants Team at the National Science Centre, Poland, involved in the preparation and implementation of the Polish Basic Research Programme. Before joining the NCN, she had worked for several years at Polish research institutions. She is interested in research policies and management, research-informed policymaking, and interdisciplinary activities.

Barbara will speak about:
Funding research: lessons learnt from the EEA and Norway Grants 2014-2021.

Monika Szkarłat a researcher and academic teacher, doctor of Social Sciences in the field of Political Science (specialization: international relations). She is also a graduate of studies in the area of intellectual property law at the Jagiellonian University in Krakow. She works at the Institute of Political Science and Administration, MCSU, Centre for Artificial Intelligence and Computational Modelling at MCSU. Her research interests focus on the relationship between science and politics, including the impact of new technologies on international relations (the social and legal dimensions of green biotechnology, the social and legal dimensions of artificial intelligence). She is currently conducting research on science diplomacy in Northern Europe and the internationalization of science in EU member states. She is a member of the Presidium of the Committee for Polar Research of the Polish Academy of Sciences, a delegate to the Board of the Polish Polar Consortium, Vice-Chair of the Social and Human Working Group (International Arctic Science Committee), and RPT 4 'Scientific cooperation and diplomacy' ICARP IV.

Monika will speak about:
Legal dimension of artificial intelligence – intellectual property law perspective.

Sara Aparício is an Earth observation data scientist, working with ESA and EUMETSAT and a PhD candidate at NOVA University, focusing on Arctic Sea ice studies using AI approaches. In the past she has supported the ESA AI Strategy Group, and contributed to AI and space research initiatives. Additionally, she has collaborated with several Arctic science organizations and conferences (APECS, SIOS and Arctic Frontiers) and is active in science communication through public speeches, interviews, and book co-authorship. Prior to the beginning of her career, Sara was awarded a University Merit Recognition upon concluding her Engineering degree and co-founded a STEM company.

Kamil Filipek, PhD in Sociology, Data Scientist. Director of the Centre for Artificial Intelligence and Computational Modeling at Maria Curie-Skłodowska University in Lublin. Assistant Professor at the Institute of Sociology (UMCS). Specializes in natural language processing (NLP) and the analysis of new, technologically enhanced social practices.

Kamil will speak about:
Large Language Models (LLMs) in Science: Pros and Cons.

The use of Large Language Models (LLMs) in science has the potential to revolutionize research. Such models can assist in data analysis, automate literature reviews, and generate hypotheses, enabling scientists to focus on more complex and creative tasks. However, the integration of LLMs also brings challenges, including concerns about accuracy, bias in generated outputs and the ethical implications of relying on machine-generated content. While LLMs can process vast amounts of information quickly, they may unintentionally propagate misinformation or reinforce existing biases present in training data. Moreover, questions arise about transparency and accountability in AI-assisted scientific work. As LLMs become more prevalent, it is essential to critically evaluate both their benefits and limitations to ensure responsible use in scientific endeavors.

Will Harcourt studies glacier dynamics across the Arctic using remote sensing, artificial intelligence and close-ranging sensing methods. He is developing tools to construct digital twins of Svalbard's cryosphere utilising the Earth Observation and in situ data. This work aims to understand the interconnections between Earth system components to better understand Arctic environmental change.

William will speak about:
Digital Twins in Svalbard: Combining Earth Observation, artificial intelligence and models in real-time.