

**AI-day September 10 9.00 – 15.30**

## **Main Speakers at the event**

### **Opening Remarks:**



**Katrine Riklund**, Deputy Vice Chancellor, professor of diagnostic radiology, Chairman of The council for artificial intelligence and autonomous systems (RAI) Umeå University.

Read more about Katrine [here!](#)

Read more about RAI [here!](#)



**Anna Arnqvist**, Associate Dean, Faculty of Medicine, professor at the department of medical biochemistry and biophysics, Umeå University.

Read more about Anna [here!](#)

### **Keynote speakers:**

**Lisa Almesjö**, senior policy officer concerning EU research financing, at the Swedish Research and Innovation office in Brussels, in cooperation with both VINNOVA and Swedish Research Council.



Lisa will present the EU's future comprehensive and strategic investment in AI. This investment focuses on several thematic priorities such as cell- and gene therapy, tools for measuring brain activity, green hydrogen and engineered living materials.

Read more on the international work at VINNOVA [here!](#)

**Nigel Mongan**, “A role for AI in cancer diagnostics” professor of oncology, faculty of medicine & health sciences, University of Nottingham, UK.



Nigel will present the current and future research directions in using AI to assist pathologists to provide cancer diagnostics with high accuracy. His talk will emphasize that AI/machine learning-based tool has high clinical value to utilize AI in combination with imaging tool for predicting patient outcome accounting for intra-tumor heterogeneity.

Read more about Nigel [here!](#)



**Joacim Rocklöv**, “AI in the management of the pandemic and other converging crises” professor at the department of public health and clinical medicine, Umeå university.

Joacim will present his research concerning the understanding of disease etiology and how predictive models for early warning and response systems using AI-methods. His research also aims to estimate future health impacts in relation to climate and environmental change.

Read more about Joacim [here!](#)

## Plenary Session Speakers

**Jenny Persson**, “AI ML-Deep Learning models in oncology” professor at the department of molecular biology, Umeå university.



Jenny will present an on-going EU-framework research in precision medicine to apply AI-Machine learning algorithms of cancer biomarkers for risk stratification and treatment follow up. By using AI-based models, multiple clinical and molecular parameters including gene mutations, epigenetic changes and gene expression profiling signatures will be integrated. As the next step, AI-based prediction and treatment models will be developed for designing tailored multi-module treatment for metastatic cancer.

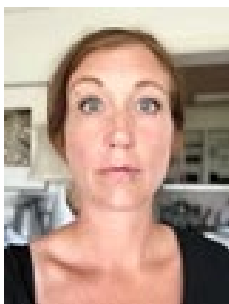
Read more about Jenny [here!](#)



**Anders Johansson**, “AI in infectious disease.” associate professor, senior consultant (attending) at the department of clinical microbiology, Umeå university.

Anders will present his research concerning how to take advantage of AI when using several forms of big data, from molecular labdata, to different clinical data to propose treatments for infectious diseases.

Read more about Anders [here!](#)



**Jenny Häggström**, “Machine Learning for predicting permanent stoma risk after rectal cancer surgery” associate professor at Umeå School of Business, Economics and Statistics, (USBE).

Jenny works, among other things, at Stat4Reg, a research lab that develops causal machine learning models, methods and free software. Jenny will present research on how machine learning can help predict risks for stomas becoming permanent after rectal cancer surgery.

Read more about Jenny [here!](#)



**Lars Lindsköld**, Can a computer keep a secret? Portfolio manager at SWeLife, a strategic innovation programme that was established in 2014 with funding from among others VINNOVA and Formas.

Read more about SweLife [here!](#)



**Beatrice Melin**, “PREDICT-a potential AI infrastructure” professor at the department of radiation sciences, Umeå university.

Beatrice will present the research infrastructure PREDICT, a large investment by the medical faculty, that will take advantage of the uniquely large database material from Västerbotten within life-science and medicine.

Read more about Beatrice [here!](#)

Read more about PREDICT [here!](#)

**Martin Rosvall**, “Hackathon, How can we find each other for collaboration in AI projects?” professor at the department of physics, Umeå university.



Martin carries out research on how information flows through social and biological systems, aiming to comprehend their inner workings. The research goal is to generate reliable predictions and suggest successful strategies to secure a sustainable future. The research will address research questions about how diseases spread, plants respond to stress, and life distributes on Earth.

Read more about Martin [here!](#)

Read more about IceLab [here!](#)

## **Session Chairs**

Moderator for the Posters Session:



Åsa Auduly, associate professor at the department of nursing, Umeå university.

Read more about Åsa [here!](#)

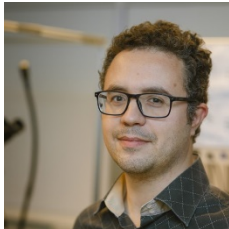
Moderator for the panel discussion: Current and Future Direction: AI in health-care and precision medicin



Johanna Gardeström, project coordinator at Research Support and Collaboration Office,

Read more about Johanna [here!](#)

Chair of the session: AI in precision medicine



Paolo Medini, associate professor at the department of Integrative Medical Biology, Umeå university.

Read more about Paolo [here!](#)

Read more about Paolo's research group [here!](#)

Chair of the session: AI and public health



Nina Sundström, Biomedical engineer, adjunct associate professor in Biomedical engineering, Region Västerbotten and Umeå university.

Read more about Nina [here!](#)