

Workshop Round 1, Morning Session, 18 June 2024

Hands-on with Large Language Models

Ola Spjuth, Arnold Kochari et al

Explore the applications of large language models tailored for Facility Forum. Whether you're a beginner or an advanced user, this hands-on workshop offers valuable insights. Enhance your proficiency in utilizing advanced language models for research and communication within the life sciences field.

From recruitment to retirement: building great career paths for facility staff in Sweden

Training Hub, Julia Fernandez-Rodriguez, Charlotte Stadler, Josefine Lundgren Gawell

How do you evolve from a staff scientist to a facility manager? What do senior research specialists wish they knew at the beginning of their careers? Both the EU and Swedish Universities are beginning to define and structure scientific career paths.

In group discussions including all career stages, this workshop will create a picture of what this looks like for SciLifeLab facility staff, and where our skills needs are—from recruitment to retirement. Join us and make your voice heard!

Open Science at Scilifelab - the Infrastructure Unit's Role in Advancing Open Science in Sweden and Beyond

Elin Kronander, Chris Erdman, Training Hub

In the Government's Research and Innovation Bill "Research, freedom, future – knowledge and innovation for Sweden" (prop. 2020/21:60), the government has called for a transition to a system of open science and states that data receiving public funding should be accessible, following the principle of being "as open as possible, as closed as necessary," by 2026.

This session will provide a background with updates on current progress in this space while introducing interactive polling elements to help with the understanding of topics and the prioritisation of open science approaches.

Moving Mental Roadblocks to Stress and Burnout

Linda Kvastad, the Coaching in Science Initiative

Stress is a natural and important reaction but when the response is kept active for too long it can have negative effects, such as burnout. We might know we need more rest and less stress, but how do we create this for ourselves? Knowing how to rest is a vital skill for sustainable work-life balance. In this workshop, we will look at our relationship to stress, set a personal goal, uncover our unconscious stress related roadblocks, and find our personal path from stress towards rest in our life.

The Swedish Genomics Initiative

Tuuli Lappalainen & the Precision Medicine Capability

The Swedish omics community is planning a major national effort, tentatively called Swedish Genomics Initiative, to advance genomic research and translational medicine in Sweden, leveraging diverse stakeholders and resources in the Swedish biomedical landscape. In this workshop, we will brainstorm how SciLifeLab could contribute to SweGI, and how SweGI could benefit SciLifeLab. After a brief presentation of SweGI and its white paper, we will work in small groups on different aspects of SweGI, e.g., multi-omic data production, clinical integration, data management, analytical opportunities, and national coordination. The workshop will be co-hosted by multiple platforms and the Precision Medicine capability.

What makes visual communication so effective - The science behind

Meike Latz

This more theoretical workshop will explore visual representations in the science discourse: what content we visualise, how we visualise it, and why visuals are so powerful in communicating complex scientific content. The powers of visualisation are manifold; they can help to improve comprehension, enhance cognition, improve the memorability of the content, and facilitate communication both by building a shared understanding and spreading concepts more easily. To harness these benefits and create visualisations that convey the intended message and are understood easily and fast we need to optimise them to human processing constraints of vision, perception and cognition. These findings from cognitive psychology will guide us in decisions of creating effective visuals for science communication.

Enhancing Your SciLifeLab Unit Website

Jahurul Islam and Liane Hughes

Discover practical strategies to update and enhance your SciLifeLab unit's website on WordPress. Elevate your online representation and effectively communicate your achievements. Join us for a hands-on session in website optimization.

Aimed at current and future unit website editors (within the SciLifeLab.se website).

Workshop Round 2, Afternoon Session, 18 June 2024

Hands-on with Large Language Models

Ola Spjuth, Arnold Kochari et al

Explore the applications of large language models tailored for Facility Forum. Whether you're a beginner or an advanced user, this hands-on workshop offers valuable insights. Enhance your proficiency in utilizing advanced language models for research and communication within the life sciences field.

How to communicate science visually: Translate your message into visual language in 5 steps

Meike Latz

This more practical workshop will explore the process of designing science visuals that communicates the intended message. The discipline of Graphic Design, the 'visual language', can guide us on how to choose layout, colour and typography that aligns with our message, and how to create a visual hierarchy that guides the reader through the visual.

With pen & paper exercises and discussions, we will go through the process of designing a visual: from idea generation, applying composition, colour & typography, to testing, discussing, and revising our concepts. If you already have an idea for a visual you want to create, this is an opportunity to work on it!

Lifelong Learning Exploration Session

Training Hub

Lifelong learning extends beyond classrooms and degree completion, and is crucial for staying cutting-edge in an ever evolving area of expertise. Building this means fostering a reflective workplace culture that enhances knowledge, skills and abilities in everyday life. In this workshop, collaborative reflective exercises will give participants ability to understand and apply lifelong learning principles within and beyond the SciLifeLab ecosystem.

Planetary Biology

Olga V Pettersson, Stefan Bertilsson, Anabella Aguilera

The aim of this workshop would be to communicate and clarify the different/special needs for environmental and planetary biology research with regards to infrastructure. We will do this by offering three short talks with real life examples of challenging research projects in these domains and the special infrastructure needs encountered. Following these presentations we will have a brainstorming session and summarizing discussion on strategies, actions and investments (staff, tools, instruments, processes) needed for enabling challenging projects in environmental/ biodiversity/ecology research. The information gathered will be used to further develop the capability.

Precision Medicine

Päivi Östling, Rikard Fred, Jan Lorenz, Natasha Benizian Olsson, Åsa Johansson, Janne Lehtiö, Eva Berglund

This workshop will discuss how we could leverage the existing tools and expertise at our technology platforms and the steps needed to jointly increase our service offering towards clinical studies and trials. To increase our capability we will need alignment of methods to maximize sample-to-data generation, ensure quality of assays and adapt throughput times to suit clinical timelines.

We also need to align meta-data collection including clinical, technical and experimental data to create FAIR-data. Finally, we need integration of results, sharing and reporting of clinically-relevant results.

Open Science at Scilifelab - the Infrastructure Unit's Role in Advancing Open Science in Sweden and Beyond

Elin Kronander, Chris Erdman, Training Hub

In the Government's Research and Innovation Bill "Research, freedom, future – knowledge and innovation for Sweden" (prop. 2020/21:60), the government has called for a transition to a system of open science and states that data receiving public funding should be accessible, following the principle of being "as open as possible, as closed as necessary," by 2026.

This session will provide a background with updates on current progress in this space while introducing interactive polling elements to help with the understanding of topics and the prioritisation of open science approaches.

Workshop Round 3, Morning Session, 19 June 2024

Hands-on with Large Language Models

Ola Spjuth, Arnold Kochari et al

Explore the applications of large language models tailored for Facility Forum. Whether you're a beginner or an advanced user, this hands-on workshop offers valuable insights. Enhance your proficiency in utilizing advanced language models for research and communication within the life sciences field.

The Swedish Genomics Initiative

Tuuli Lappalainen & the Precision Medicine Capability

The Swedish omics community is planning a major national effort, tentatively called Swedish Genomics Initiative, to advance genomic research and translational medicine in Sweden, leveraging diverse stakeholders and resources in the Swedish biomedical landscape. In this workshop, we will brainstorm how SciLifeLab could contribute to SweGI, and how SweGI could benefit SciLifeLab. After a brief presentation of SweGI and its white paper, we will work in small groups on different aspects of SweGI, e.g., multi-omic data production, clinical integration, data management, analytical opportunities, and national coordination. The workshop will be co-hosted by multiple platforms and the Precision Medicine capability.

Conveying Your Message: a Three-step Process to a Sharp Elevator Pitch

Anna Frejd

Join the workshop for guidance through a hands-on experience, helping you craft a concise and compelling description of your unit, platform, or project. The goal is to reach the next level of mastering the art of delivering an impactful elevator pitch that resonates with your audience. Elevate your communication skills and leave a lasting impression.

Moving Mental Roadblocks to Stress and Burnout

Linda Kvastad, the Coaching in Science Initiative

Stress is a natural and important reaction but when the response is kept active for too long it can have negative effects, such as burnout. We might know we need more rest and less stress, but how do we create this for ourselves? Knowing how to rest is a vital skill for sustainable work-life balance. In this workshop, we will look at our relationship to stress, set a personal goal, uncover our unconscious stress related roadblocks, and find our personal path from stress towards rest in our life.

Planetary Biology

Olga V Pettersson, Stefan Bertilsson, Anabella Aguilera

The aim of this workshop would be to communicate and clarify the different/special needs for environmental and planetary biology research with regards to infrastructure. We will do this by offering three short talks with real life examples of challenging research projects in these domains and the special infrastructure needs encountered. Following these presentations we will have a brainstorming session and summarizing discussion on strategies, actions and investments (staff, tools, instruments, processes) needed for enabling challenging projects in environmental/ biodiversity/ecology research. The information gathered will be used to further develop the capability.

Precision Medicine

Päivi Östling, Rikard Fred, Jan Lorenz, Natasha Benzian Olsson, Åsa Johansson, Janne Lehtiö, Eva Berglund

This workshop will discuss how we could leverage the existing tools and expertise at our technology platforms and the steps needed to jointly increase our service offering towards clinical studies and trials. To increase our capability we will need alignment of methods to maximize sample-to-data generation, ensure quality of assays and adapt throughput times to suit clinical timelines.

We also need to align meta-data collection including clinical, technical and experimental data to create FAIR-data. Finally, we need integration of results, sharing and reporting of clinically-relevant results.

Pandemic Laboratory Preparedness

Ulf Ribacke, Staffan Svärd, Alice Sollazzo

How can the SciLifeLab infrastructure support the Pandemic Laboratory Preparedness capability. How do we keep a basic level of preparedness and how to repurpose it for research? Short presentation followed by open and interactive discussion with capability leads.