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University of  
Zurich<sup>UZH</sup>

UZH Space Hub

# UZH Space Hub Newsletter



Dear UZH Space Hub Community

In this newsletter you will find news, upcoming events and space-related opportunities (internship and funding opportunities) in the Swiss landscape and beyond.

Have a nice read,

UZH Space Hub Team

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## News



## **UZH Space Hub @ Innovation Park Zurich**

The former workshop building of the Swiss Air Force and now part of the Switzerland Innovation Park Zurich is a historical building and is currently being prepared to meet the needs of the UZH Space Hub community for the opening in mid 2024. A multi-user facility is being created with access to the airfield, biolabs, workshops, offices and a civil research flight facility. The building will also be the home of the National Center of Biomedical Research in Space and will be the place-to-be for established, globally active space companies, SMEs and startups from the space and aviation sectors.

Image: Visualization of the future home of the UZH Space Hub. Copyright: HRS Real Estate AG

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## ESA career event at UZH

Around 100 students were present to get first hand informed about career opportunities at the European Space Agency. Jennifer Adamas and Andreas Hüni from the UZH Space Hub ecosystem shared their experience to work at or with ESA on exciting satellite missions together with ESA representatives or former ESA employees. The event was organised through Space Exchange Switzerland. Watch out also for the new ESA internship opportunities open now (see below).

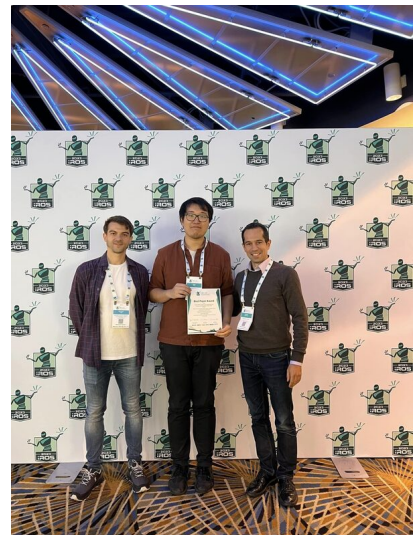
[Read more](#)

## Best Paper Award for team Scaramuzza

Davide Scaramuzza and team were honored with the IROS2023 best paper award for their paper "Autonomous Power Line Inspection with Drones via Perception-Aware MPC"!

We congratulate Davide Scaramuzza and his collaborators.

[Read more](#)





## Wings for Science: Analyzing the Swiss Parabolic Flights from Campaign Nr. 1 to 4

In a recent publication Oliver Ullrich et al. wrap-up the results of the first four Swiss Parabolic Flight Campaigns flown with the Novespace Airbus 310. Parabolic flights are one of the most important pillars for research, development, and applications in space. Oliver Ullrich, UZH Space Hub director and president of the Swiss Skylab Foundation, developed the world's first non-governmental parabolic flight program using Novespace's Airbus A310 ZERO-G.

The program was very successful and resulted in 34 experiments and tests in microgravity conducted by universities and organizations in the industry, culminating in many scientific publications, better products and in larger follow-up projects for all users. The publication discusses the difficulties, problems, and success factors of building a large-scale flight research platform "bottom-up" by scientists for scientists on a voluntary, non-governmental, and non-commercial basis.

Image: Take-off of the Airbus 310 from the Military Airfield Dübendorf in 2022. Copyright: Regina Sablotny

[Read the publication](#)

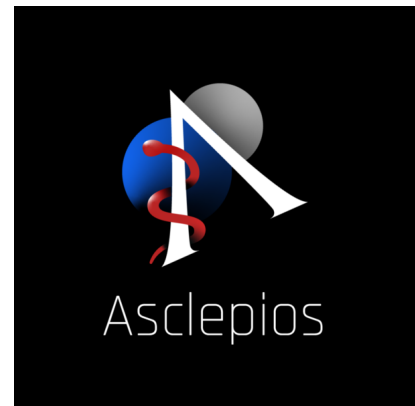
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# Opportunities

## Asclepios Call for student's project

Are you interested in developing a project for a simulated (analogue) space mission? Asclepios launched the fourth Call for Projects for an the astronaut crew that is going to spend two weeks in isolation during summer 2024 in a simulated Moon base, where they will perform extravehicular activities (EVAs) and run scientific experiments chosen through this Call for Project (many different topics).

Key research areas of Asclepios IV include topics within Exploration and Habitat Optimization in Lunar Environment, which includes Environmental Sciences and Sustainability of lunar operations, Engineering, Robotics, Physics and Space Biomedicine. Deadline is 14th November. Contact [UZH Space Hub](#) for support and check-out the webpage.



[Asclepios webpage](#)

## Bridge-proof of concept call open

Are you a young researcher with an research result that you want to bring into a social or commercial innovation? Then the BRIDGE Proof of concept call is a nice opportunity to get funding (up to 130'000.- for one year) and additional training. Apply now until the 4 December 2023.

[Read more](#)



**Internship at ESA – apply now!**

Are you fascinated by space and want to get first insights into the space working environment? Then watch out for the new open positions for internships at ESA that are open now. There is even Swiss funding via the Movetia grants available. For more information check <https://www.space-exchange.ch/career> or ask us.

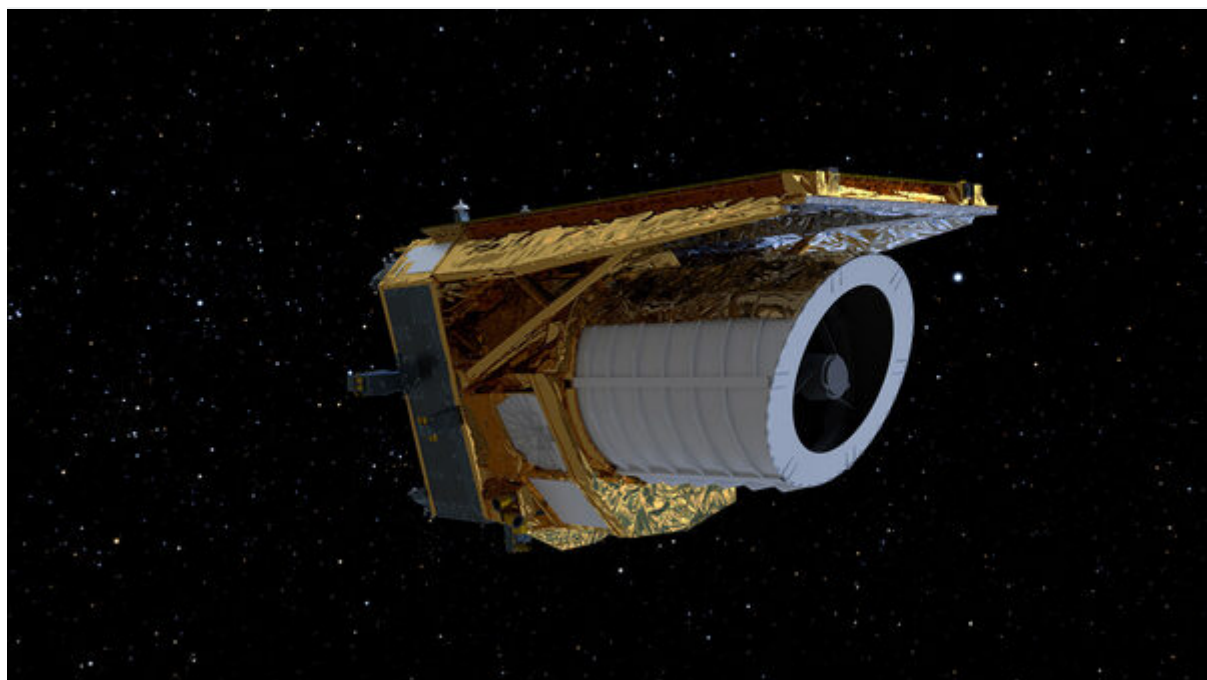
## Events



### **BSGN Conference 2024: Space for Inspiration**

Space for Inspiration 2024 is an inspiring B2B annual gathering that unites visionaries, entrepreneurs, innovators, and investors at the forefront of commercial space exploration and is organized by the Business in Space Growth Network of ESA. The meeting takes place on January 18 to 19, 2024 and addresses topics like “Reaching New Heights in Transportation”, “The Future Beyond ISS”, “The Rise of Lunar Economy” “ESA’s Industry Accelerator” etc.

[For more information and registration](#)



**Euclid mission about to release first full-colour images of the cosmos on November 7**

ESA plans a press conference for the 7th of November 2023 to present and discuss first, razor-sharp astronomical images from the Euclid mission, looking for mysterious dark matter and energy. The programm includes an ESA Web TV broadcast, releasing HD images worldwide. Several researchers from UZH and the UZH Space Hub community contribute to the Euclid mission.

picture: ESA/ATG

[Event Information](#)

## Meet a Space Scientist

This month we have interviewed Aurel Schneider, Professor at the University of Zurich, working on theoretical Astrophysics and Cosmology. His interest lies in exploring dark matter, a barely understood component that is essential for the formation of stars and galaxies that happens in our initially smooth universe. This interview is part of a series about the UZH researchers involved in Euclid, the ESA space telescope that took off from Cape Canaveral in July this year.

[Read more](#)



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