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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 in the Swiss landscape and beyond.

Have a nice read,

UZH Space Hub Team

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## News



## **LISA, a gravitational wave observatory in space**

In this new movie, our UZH Space Hub member, prof. Philippe Jetzer, explains LISA, the first gravitational wave observatory in space. The project is led by ESA with contributions of NASA and is scheduled to launch to Space in 2036. Its detection of gravitational waves could help to gain knowledge about the evolution of galaxies and the Einstein's theory of general relativity. Prof. Jetzer, from the Department of Physics of the University of Zurich, is the Swiss representative in the LISA Science Study Team of ESA. Thales Alenia Space built the front-end electronics for the LISA Pathfinder satellite, which was launched in December 2015 and successfully tested several technological components that will be used for the next space mission.

[See the movie](#)



## From Zurich to Space

In May, the ESA Communication Advisory Committee visited the University of Zurich to exploit synergies between the communication and outreach activities of ESA and Switzerland, and to better inform on the benefit of Space exploration. Space research, in fact, is not only of interest to natural scientists, but also to archeologists, architects working on urban planning and medical doctors, to name a few. The UZH Space Hub is proud to have and support such a variety of space projects, and it is ready to strengthen new collaborations with the space industry in future.

[Read more](#)

## Space Resources and Planetary Sustainability

Andreas Losch (UZH Space Hub / University of Bern) with André Galli (University of Bern), Oliver Ullrich (UZH Space Hub) and Moriba Jah (University of Texas at Austin) have edited an impactful collection on Space Resources and Planetary Sustainability: Challenges and Opportunities with Frontiers in Astronomy and Space Sciences. In two papers, the use of outer space as a research resource for studies of plant biology and the space environment's endangerment by the growing amount of space debris are discussed. Also, a third article proposes nothing less than a universal ("pancosmorio") theory of sustainable human migration and settlement in space. This paper, published in March, already reached an altmetric score of 225, a very high attention score compared to outputs of the same age (99th percentile). Finally, the issue of "ground bias" as a driver for skepticism about space exploration is discussed.

[Read the editorial presenting the four papers here](#)

## Events

### Space Café: 3-2-1 Go Euclid!

What is dark matter? What drives the accelerating expansion of our Universe? These and more questions could be answered by Euclid, the European Space Agency (ESA) space mission which is set to launch in July 2023. Several UZH researchers are actively involved in the project and will tell us more in this dedicated Space Café. Join us on June 16, 2023, at Irchel Campus. The event will start at 14:30 and will be followed by an apero.



[Free registration](#)



## Aerospace Europe Conference

As a joint event between the 10th European Conference for Aerospace Sciences (EUCASS) and the 9th conference of the Council of European Aerospace Societies (CEAS), this conference is organised at the Swiss Tech Convention Center in Lausanne, Switzerland, July 9-13 2023. It focusses on strengthening the link between space and aeronautics, facilitating cross-fertilisation and laying the foundations for a major unified international congress of aerospace sciences in Europe. With the presentation of scientific content for the future of space and aeronautics, cutting-edge ideas for the world of tomorrow will be shared.

[Read more](#)

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## Opportunities



ECSECO



## 2023 ECSECO Academic Paper Competition

Young researchers, doctoral and master's students, are invited to submit their paper in the fields of Space Economy or Space Business and Commercialisation and win the ECSECO Best Paper Award! ECSECO-Membership is mandatory and available for low cost (20-50 CHF), enabling networking and other events. Competitions finalists will present papers at the [Commercial Space Days conference](#) in Luzern on 11-12 September 2023. All the

finalists who submit their papers will be granted 2-Day Congress Pass for Commercial Space Days and two-night accommodation during the event.

[Read more](#)

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## Meet a Space Scientist

This month we have interviewed Julian Adamek, SNF-Eccellenza Professor at the Institute for Computational Science (University of Zurich). Julian is a cosmologist and works on computer models to integrate relativist effects in the simulations of our Universe.

This interview is part of a series about the UZH researchers involved in Euclid, as ESA space mission which will take off from Cape Canaveral in July 2023

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