

## UZH Space Hub Newsletter



Dear UZH Space Hub Community

In this newsletter, you can find our news and discover space-related opportunities and events.

Have a nice read,

UZH Space Hub Team

### News

#### IPBES Nomination

Congratulations to our UZH Space Hub member, Prof. Maria J. Santos, who has been nominated by the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Lead author for IPBES nexus assessment: Thematic assessment of the interlinkages among biodiversity, water, food and health. As an expert on Biodiversity and Earth System Science, she will work on Chapter 5.1: Options for delivering sustainable approaches to elements of the nexus (water).



### Events

#### Space Café - ESA YGT Programme

The Space Café Team is happy to invite students and young researchers to the next edition of Space Café! Our first event will mainly target students in the final year of their Master's degree, therefore we kindly ask professors and group leaders to share this information. The theme, in fact, is the Young Graduate Trainee Programme, offered by the European Space Agency. Students will have the possibility to talk with past participants and to learn how to successfully apply to such a programme or an internship at ESA. The event will take place on February 9, 2022, at 14:00, in hybrid mode (2G applies). Registration is free but mandatory.

[Read more](#)



#### International Day of Women and Girls in Science

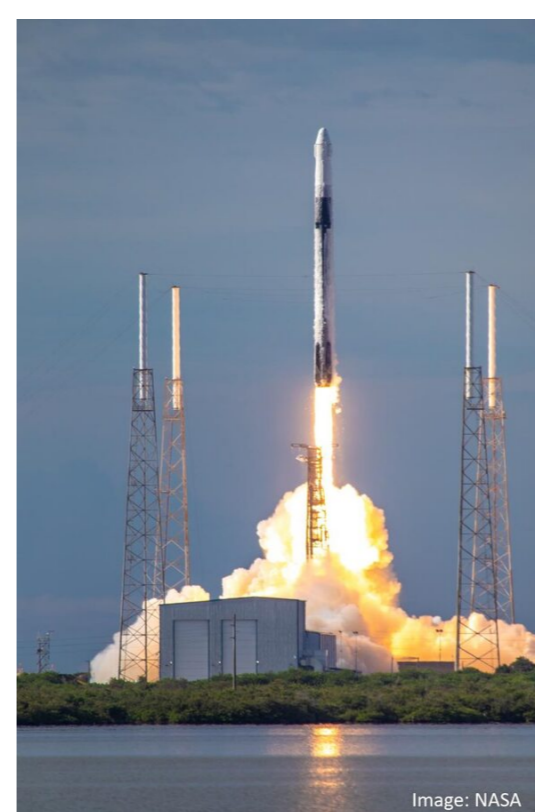
In occasion of the International Day of Women and Girls in Science, the UZH is organising exciting STEM events for girls and young women. For example, the scientific NPOC for satellite images will offer a workshop on the use of satellite data and Earth Observation and the Science Lab UZH will propose a workshops about programming and artificial intelligence and a guided tour in the UZH Science Exploratorium.

[Read more](#)



#### Seminar: Bacterial Adaption to Spaceflight

On February 22, at 16.30, Prof. Wayne L. Nicholson, from the Space Life Sciences Laboratory, Department of Microbiology and Cell Science, University of Florida, will give a talk on "Adaptation of the model bacterium *Bacillus subtilis* to the human spaceflight environment" in the seminar series of the Institute of Anatomy, which you are welcome to attend. Successful long-term human exploration of space is impossible without considering microbiology. First and foremost, humans are metaorganisms, in which roughly one-half their component cells are in fact microbes (i.e., the human microbiome). Second, spacecraft are built environments which rapidly establish their own resident microbiomes. Thus astronaut health, disease, nutrition, and performance are intimately linked to the health both of their own microbial inhabitants and of their surroundings. In this talk, Prof. Wayne will discuss his work investigating how spaceflight affects the fundamental physiology of bacterial cells, using the common spore-forming bacterium *Bacillus subtilis* as experimental model. Please use this [Zoom link](#) to attend.



### Opportunities

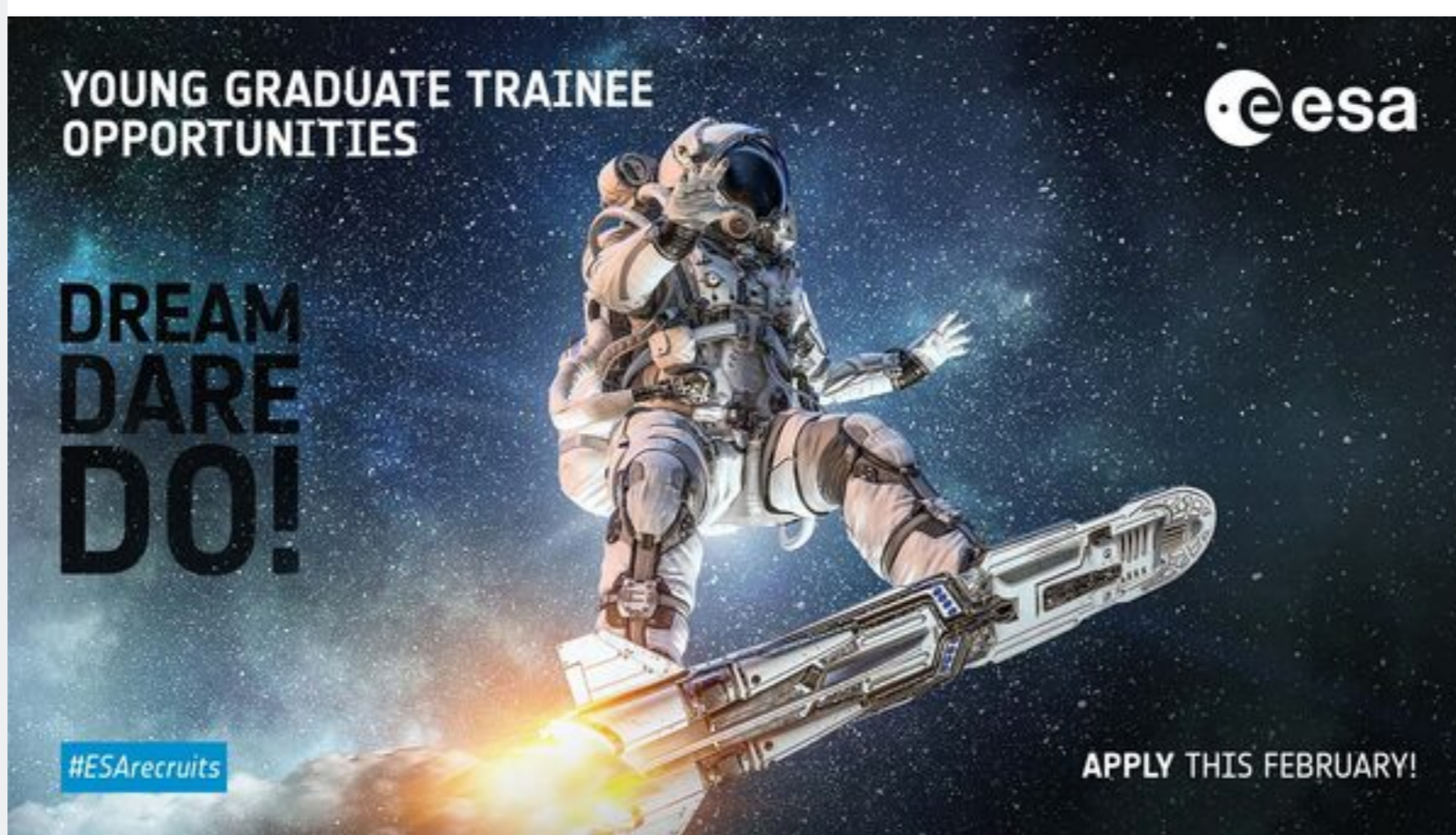
#### Innovation & Entrepreneurship @ UZH

Are you interested in acquiring hands-on entrepreneurial skills and learning how to apply innovation knowledge, methods and tools? The University of Zurich offers training and courses about Entrepreneurship and Innovation. You can learn how to identify problems, create ideas in diverse teams and develop a validated solution. Next deadlines for registration:

- Business Concept Course: February 17, 2022
- Digital Ventures: Leadership & Foundation: March 1, 2022
- BioEntrepreneurship & Innovation Program, March 23, 2022

More information on the [Innovation Hub](#) webpage.

[Read more](#)



#### ESA YGT Programme

Are you a student in the final year of a Master's degree or have you just graduated in engineering, science, IT or business services? Would you like to start your professional career at ESA? Then check the ESA Young Graduate Trainee Programme. You can choose and apply to max two positions by February 28, 2022.

[Read more](#)

#### ESA Concurrent Engineering Challenge

Are you a Master or PhD student in engineering or physics, interested in Space Mission Design? Apply for the next edition of the Concurrent Engineering Challenge, organised by the ESA's Education Office and Systems and Concurrent Engineering Section and scheduled from April 4 to 8, 2022. Deadline for application: February 14, 2022.

[Read more](#)



#### ESA BIC Switzerland: Calling Startups with a Space Connection

Are you a startup willing to explore your space connection or develop an application related to space? If your startup is less than five years old and wants to benefit from the extensive support package offered by the ESA Business Incubation Centre (ESA BIC) Switzerland, apply by February 28, 2022.

[Read more](#)



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