

ESA Science Programme: Ways of Engagement

Dr. Gaitee Hussain
Head, ESA Science Engagement and Oversight Office
gaitee.hussain@esa.int



Subscribe to our newsletter:
cosmos.esa.int/web/scinews

ESA SCIENCE NEWSLETTER

ISSUE #01/2024 - 14 MAY 2024



ESA's First Director of Science Town Hall

It is our pleasure to invite all interested members of the scientific community to ESA's first Director of Science Town Hall, to be held virtually on 28 May, from 9:30 to 12:30 CEST.

The Town Hall will provide an opportunity for direct exchange between the Directorate's Executive and the broader scientific community, including current and future users of ESA's missions. It will allow us to introduce the long-term vision of ESA's Science Programme and provide a channel to listen to the views, ambitions, and requests from the scientific community.

[Read more](#)

Research Fellows in Space Science 2024

ESA has selected 12 new Fellows to pursue their own independent research in space science in 2024.



Among the 2024 Research Fellows in Space Science are Alice Borghese, Louise Breuval, Sam Fayolle, Jack M. Jenkins, Eva Laplace, David O'Ryan, Erwan Quintin, Matilde Signorini, Lorenzo Speri, Domenico Trotta, and Bert Vander Meulen. Their research spans a broad range of exciting topics in the fields of heliophysics, planetary science, astrophysics, and fundamental physics. For example, they model colliding black holes, investigate the orbit and interior of Jupiter's innermost Galilean Moon, Io, measure the expansion rate of the Universe, and work towards understanding solar prominences.

The next call for the ESA Research Fellowship in Space Science is expected to open in August 2024.

[Read more](#)

IRIS Call for Science Planners AO#10

NASA's Interface Region Imaging Spectrograph (IRIS) is a Small Explorer (SMEX) mission that allows scientists to trace the flow of solar

Upcoming ESA conferences:

MERCURY2024

4-7 June 2024, Kyoto, Japan

During this meeting all topics relevant to the exploration of Mercury - magnetosphere, exosphere, surface and interior and evolution - will be discussed. Topical tutorials and overview talks summarising recent studies in the field will be held each day.

European Astronomical Society Annual Meeting 2024 - Lunch Sessions LS3 and LS4: ESA Archives and ESA Science Programme

3 July 2024 and 4 July 2024, Padua, Italy

During two dedicated lunch sessions, ESA's Science Directorate will present an overview over its programme aimed at early career researchers and update the European space science community on the services, tools, and assets offered by the ESA Space Science Archives.

European Astronomical Society Annual Meeting 2024 - Special Session SS21: The PLATO mission: Towards new horizons in Exoplanet and Stellar Science

4 July 2024, Padua, Italy

PLATO will focus on the study of exoplanets orbiting up to the habitable zone of Sun-like stars. In this Special Session, the community will be informed about the status of the mission, the core science, the science preparatory activities, the data products, and the possibilities for community involvement. The second goal is to provide a forum for the community to present current research relevant for the preparation and exploitation of the PLATO mission.

Mercury Laboratory Workshop

16-18 September 2024, Berlin, Germany

The aim of the workshop is to bring together the Mercury community from different institutions and laboratories to: present laboratories, facilities and ongoing work on Mercury analogues, discuss Mercury surface composition studies (from MESSENGER to BepiColombo), design a plan of experiments on common samples, and prepare for the BepiColombo observations.

22 years of INTEGRAL: catching results and discoveries

21-25 October 2024, ESA/ESAC, Madrid, Spain

INTEGRAL has been crucial in our understanding of astrophysical phenomena over a wide energy and temporal range. This conference is the occasion to discuss novelties in high-energy astrophysics, new instrumental facilities, and innovative data-analysis methods. Anticipated lively interactions among participants will be harnessed to refine the plan for maximizing data exploitation now and in the decades to come.

ESA Science Announcements of Opportunity

Regular announcements of opportunity:

www.cosmos.esa.int/web/science-announcement-of-opportunities

Open: AO for Science planners for NASA-led IRIS mission

Recent calls:

- Expression of interest for Members of Astronomy Working Group, Solar System and Exploration Working Group, Space Science Advisory Committee
- Membership of NewAthena Science Study Team & LISA Science Team
- Guest Observer AOs for XRISM & CHEOPS



Boost your research via ESA

Press Releases

- ESA science contact person (Project Scientist)
- > 4 weeks before publication date
- editorial board



Boost your research via ESA

Press Releases

- ESA science contact person (Project Scientist)
- > 4 weeks before publication date
- editorial board

ESA Grants

- research ideas can be submitted to the Open Discovery Ideas Channel (ideas.esa.int)
- emphasis on *innovation/novelty*
- co-sponsored research provides from ~20-90k€, matching funds for a duration 6-36 months



Science Visitors

- Archival Research Visitor Programme:
early career researchers (inc. PhD students)
reviewed 2x year for 1-3 month stays
- Faculty Visitor Programme
duration can be days-months (typically ~weeks*)
co-funding encouraged

<https://www.cosmos.esa.int/web/space-science-faculty/opportunities/visiting>



Top to bottom: ESAC antenna, ESAC D building, ESTEC highway, ESTEC flags & stormtrooper, STScI Muller building (J Bedke & S Westphal STScI)



Interns & Trainees

Open to nationals of ESA Member States & Cooperating States

Internships (duration 3-6 months)

- master students (penultimate/final year), ~ Oct



Interns & Trainees

Open to nationals of ESA Member States & Cooperating States

Internships (duration 3-6 months)

- master students (penultimate/final year), ~ Oct

Trainees (duration 1 year)

- master students (final year/recent graduate)
- YGT programme, applications due ~Feb
- National Trainees

www.esa.int/About_Us/Careers_at_ESA/Graduates_Young_Graduate_Trainees

www.esa.int/About_Us/Careers_at_ESA/Graduates_National_Trainees



Overview

- 20-25 Research Fellows across ESAC (ES), ESTEC (NL) & STScI (US)
- 100% *independent* research
- duration up to 3 years
- *optional* functional work (<20%)



ESA SPACE-SCIENCE FELLOWSHIP PROGRAMME

Join us in the exciting adventure that
is space science!



Overview

- 20-25 Research Fellows across ESAC (ES), ESTEC (NL) & STScI (US)
- 100% *independent* research
- duration up to 3 years
- *optional* functional work (<20%)

2024 Call Schedule (tbc)

- 8-10 fellows
- motivation letter, research plan, publication list
- deadline mid-Sep, offers Jan-Feb
- jamboree mid-Nov
- much more information at link:
www.cosmos.esa.int/web/space-science-faculty/opportunities/research-fellowships



ESA SPACE-SCIENCE FELLOWSHIP PROGRAMME

Join us in the exciting adventure that
is space science!



RESEARCH FELLOWS IN SPACE SCIENCE 2024



Alice Borghese



Louise Breuval



Sam Fayolle



Jack M. Jenkins



Eva Laplace



David O'Ryan



Erwan Quintin



Matilde Signorini



Lorenzo Spери



Domenico Trotta



Bert Vander Meulen

https://www.esa.int/ESA_Multimedia/Images/2024/05/Research_Fellows_in_space_science_2024
<https://www.cosmos.esa.int/web/space-science-faculty/opportunities/research-fellowships/new-rfs-2024>



Subscribe:
cosmos.esa.int/web/scinews



ESA's First Director of Science Town Hall

It is our pleasure to invite all interested members of the scientific community to ESA's first Director of Science Town Hall, to be held virtually on 28 May, from 9:30 to 12:30 CEST.

The Town Hall will provide an opportunity for direct exchange between the Directorate's Executive and the broader scientific community, including current and future users of ESA's missions. It will allow us to introduce the long-term vision of ESA's Science Programme and provide a channel to listen to the views, ambitions, and requests from the scientific community.

[Read more](#)

Research Fellows in Space Science 2024

ESA has selected 12 new Fellows to pursue their own independent research in space science in 2024.

Among the 2024 Research Fellows in Space Science are Alice Borghese, Louise Breuval, Sam Fayolle, Jack M. Jenkins, Eva Laplace, David O'Ryan, Erwan Quintin, Matilde Signorini, Lorenzo Speri, Domenico Trotta, and Bert Vander Meulen. Their research spans a broad range of exciting topics in the fields of heliophysics, planetary science, astrophysics, and fundamental physics. For example, they model colliding black holes, investigate the orbit and interior of Jupiter's innermost Galilean Moon, Io, measure the expansion rate of the Universe, and work towards understanding solar prominences.

The next call for the ESA Research Fellowship in Space Science is expected to open in August 2024.

[Read more](#)

IRIS Call for Science Planners AO#10

NASA's Interface Region Imaging Spectrograph (IRIS) is a Small Explorer (SMEX) mission that allows scientists to trace the flow of solar

Upcoming ESA conferences:

MERCURY2024

4-7 June 2024, Kyoto, Japan

[During this meeting](#) all topics relevant to the exploration of Mercury - magnetosphere, exosphere, surface and interior and evolution - will be discussed. Topical tutorials and overview talks summarising recent studies in the field will be held each day.

European Astronomical Society Annual Meeting 2024 - Lunch Sessions LS3 and LS4: ESA Archives and ESA Science Programme

3 July 2024 and 4 July 2024, Padua, Italy

During two dedicated lunch sessions, ESA's Science Directorate will present [an overview over its programme aimed at early career researchers](#) and update the European space science community on the [services, tools, and assets](#) offered by the [ESA Space Science Archives](#).

European Astronomical Society Annual Meeting 2024 - Special Session SS21: The PLATO mission: Towards new horizons in Exoplanet and Stellar Science

4 July 2024, Padua, Italy

PLATO will focus on the study of exoplanets orbiting up to the habitable zone of Sun-like stars. [In this Special Session](#), the community will be informed about the status of the mission, the core science, the science preparatory activities, the data products, and the possibilities for community involvement. The second goal is to provide a forum for the community to present current research relevant for the preparation and exploitation of the PLATO mission.

Mercury Laboratory Workshop

16-18 September 2024, Berlin, Germany

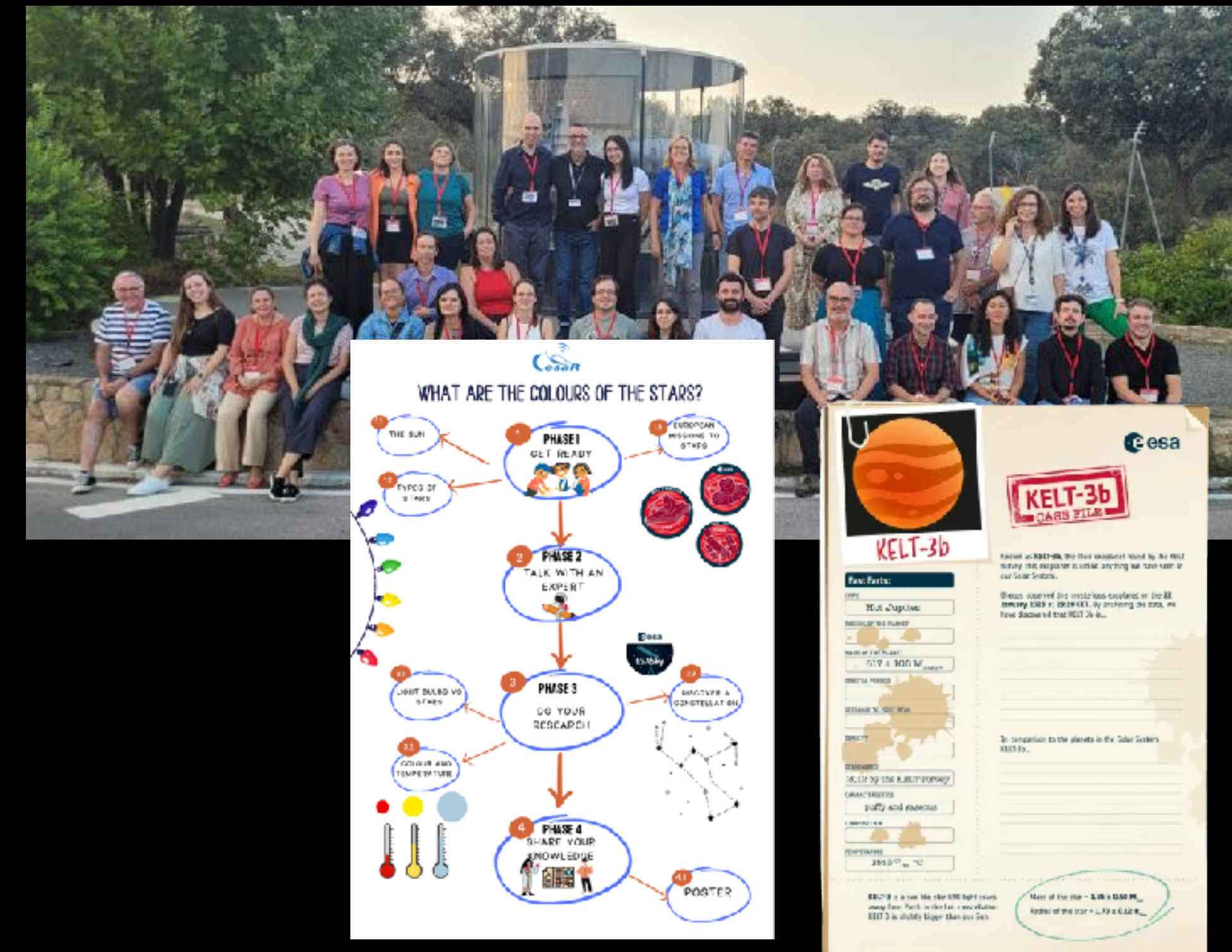
The aim of [the workshop](#) is to bring together the Mercury community from different institutions and laboratories to: present laboratories, facilities and ongoing work on Mercury analogues, discuss Mercury surface composition studies (from MESSENGER to BepiColombo), design a plan of experiments on common samples, and prepare for the BepiColombo observations.

22 years of INTEGRAL: catching results and discoveries

21-25 October 2024, ESA/ESAC, Madrid, Spain

Educational resources

- Educational activities around ESA Science missions with an emphasis on inspiring future generations
- International teacher training online & in-person e.g. ESA-Galileo Teacher training programme
- Spanish language teacher training sessions at ESAC & online
- Useful links:
<https://cesar.esa.int/index.php>
<https://www.esa.int/Education>



Top to bottom: ESA-GTP 2023 poster, Group photo with the astronaut and cancer researcher Sara Garoía Alonso. Credit: ESAC, infographic on stellar color activity for primary school students, CHEOPS hack an exoplanet (ESA Education/CESAR),.



Thank you!