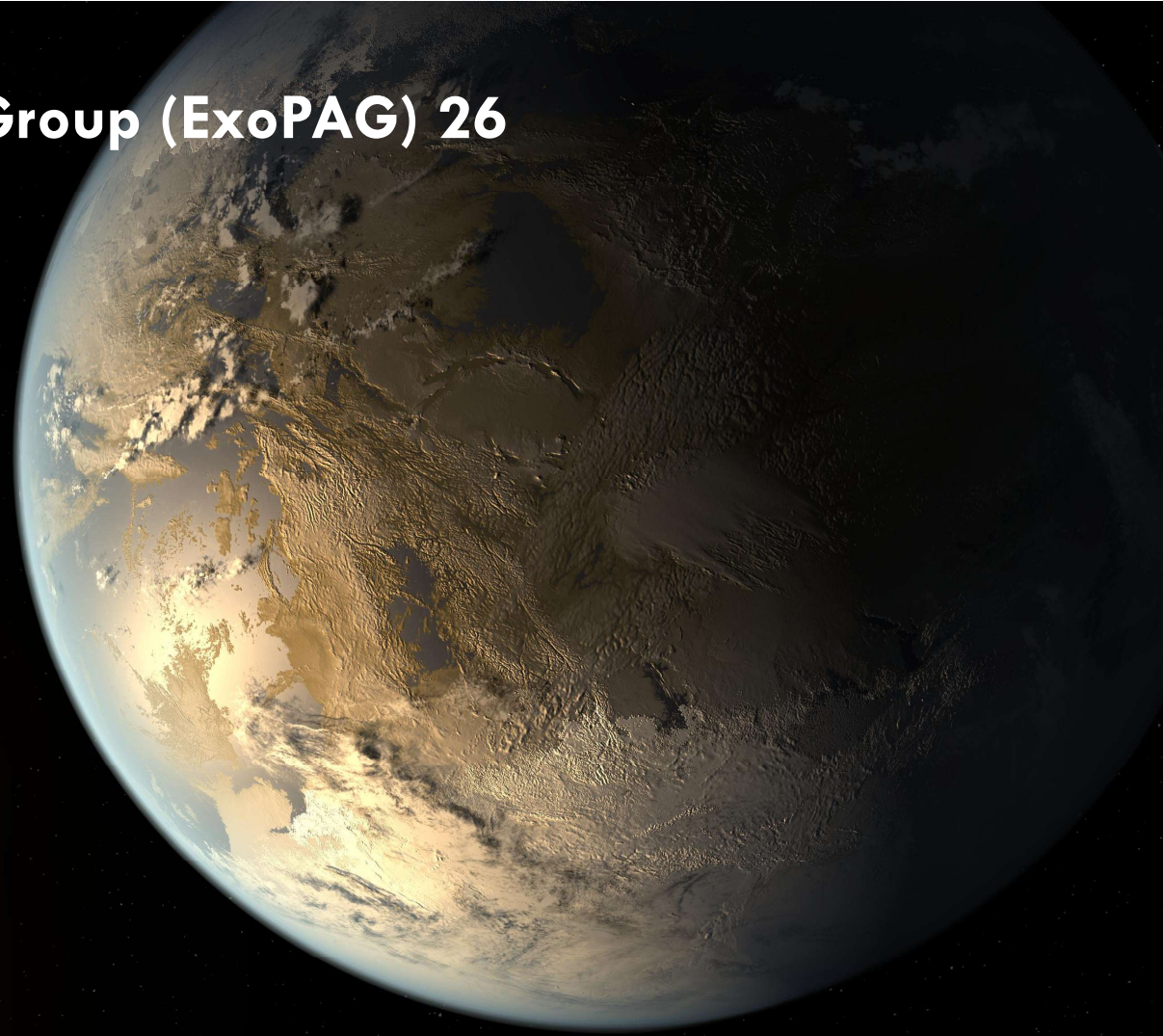


# Exoplanet Program Analysis Group (ExoPAG) 26

Michael Meyer (U. Michigan)  
Chair, ExoPAG Executive Committee

June 11-12, 2022

Credit: NASA



# Exoplanet Program Analysis Group: What is that anyway?

## ExoPAG Terms of Reference

Exoplanet Program Analysis Group  
Chartered by the Astrophysics Division

1. Articulate & prioritize science drivers for Exoplanet Exploration research;
2. Evaluate capabilities of potential missions to achieve program goals;
3. Evaluate ExEP activities with broad community input;
4. Articulate & prioritize new mission technologies; and
5. Provide findings on all related program activities including:
  - ground-based observing,
  - theory and modeling programs,
  - laboratory astrophysics,
  - suborbital investigations,
  - data archiving and
  - community engagement.

Credit: NASA

# ExoPAG Executive Committee

<i>Michael Meyer (Chair)</i>	<i>University of Michigan</i>
Natasha Batalha	NASA-Ames
Jacob Bean	The University of Chicago
Michael Bottom	The University of Hawaii
Ofer Cohen	University of Massachusetts Lowell
Knicole Colon	Goddard Space Flight Center
John Debes	Space Telescope Science Institute
<i>Tiffany Kataria</i>	<i>JPL/Caltech</i>
Ilaria Pascucci	The University of Arizona
<i>Josh Pepper</i>	<i>Lehigh University</i>
<i>Dmitry Savransky</i>	<i>Cornell</i>
Laura Schaefer	Stanford University
Douglas Hudgins (Astrophysics)	NASA HQ
Hannah Jang-Condell (ExEP DS)	NASA HQ
Doris Daou (Planetary Liaison)	NASA HQ
Richard Eckman (Earth Liaison)	NASA HQ
Gaylan Fowler (Heliophys Liason)	NASA HQ

*Thank you for your service...*

Credit: NASA

# ExoPAG Executive Committee

<i>Michael Meyer (Chair Emeritus)</i>	<i>University of Michigan</i>
Natasha Batalha	NASA-Ames
Jacob Bean	The University of Chicago
Michael Bottom	The University of Hawaii
Ofer Cohen	University of Massachusetts Lowell
Knicole Colon	Goddard Space Flight Center
John Debes	Space Telescope Science Institute
<i>Diana Dragomir</i>	<i>U. New Mexico</i>
<i>Erin May</i>	<i>JHU/APL</i>
<i>Bertrand Mennesson</i>	<i>JPL/Caltech</i>
<i>Ilaria Pascucci (Chair)</i>	<i>The University of Arizona</i>
Laura Schaefer	Stanford University
John Wisniewski	U. Oklahoma
Douglas Hudgins (Astrophysics)	NASA HQ
Hannah Jang-Condell (ExEP DS)	NASA HQ
Doris Daou (Planetary Liaison)	NASA HQ
Richard Eckman (Earth Liaison)	NASA HQ
Gaylan Fowler (Heliophys Liason)	NASA HQ

*Welcome to our newest members!*

Credit: NASA

**June 11, 2022**

<b>Session 1 (Chair: Michael Meyer)</b>		<b>Speaker</b>	<b>Time (PDT)</b>	<b>Duration</b>	<b>End</b>
Welcome		Michael Meyer	9:00 AM	0:15	9:15 AM
NASA Headquarters Exoplanet Exploration Program		Hannah Jang-Condell	9:15 AM	0:30	9:45 AM
Exoplanet Exploration Program (ExEP) Office		Christine Moran	9:45 AM	0:15	10:00 AM
ExEP Science		Eric Mamajek	10:00 AM	0:20	10:20 AM
NExSci and NASA Exoplanet Archive Update		David Giardi	10:20 AM	0:20	10:40 AM
<b>BREAK (30 min)</b>			10:40 AM	0:30	11:10 AM
Early Career Talk: Novel Methylated Biosignatures: Outcomes of a General Metabolic Process as a New Class of Biosignatures		Michaela Leung	11:10 AM	0:15	11:25 AM
Early Career Talk: Precise Dynamical Masses of New Directly Imaged Companions from Combining Relative Astrometry, Radial Velocities, and Hipparcos-Gaia eDR3 Accelerations		Emily Rickman	11:25 AM	0:15	11:40 AM
ExEP Technology Update		Brendan Crill	11:40 AM	0:30	12:10 PM
<b>LUNCH BREAK (90 min)</b>			12:10 PM	1:30	1:40 PM
<b>Session 2 (Chair: Knicole Colon)</b>		<b>Speaker</b>	<b>Time (PDT)</b>	<b>Duration</b>	<b>End</b>
Early Career Talk: On the nature of small planets orbiting low-mass stars		Rafael Luque	1:40 PM	0:15	1:55 PM
Where We Explore		Anjali Tripathi	1:55 PM	0:15	2:10 PM
Exoplanets with Gaia		Timothy Brandt	2:10 PM	0:30	2:40 PM
SIG 3 Update: Exoplanet/Solar System Synergies		Laura Mayorga (remote share)	2:40 PM	0:30	3:10 PM
<b>BREAK (30 min)</b>			3:10 PM	0:30	3:40 PM
<b>Session 3 (Chair: Diana Dragomir)</b>		<b>Speaker</b>	<b>Time (PDT)</b>	<b>Duration</b>	<b>End</b>
Overview of NExSS Working Groups		Dawn Gelino	3:40 PM	0:15	3:55 PM
NExSS Quantitative Habitability		Rory Barnes	3:55 PM	0:20	4:15 PM
Coronagraph Innovation		Rus Belikov/Kevin Fogarty (remote share)	4:15 PM	0:20	4:35 PM
<b>Adjourn</b>			4:35 PM		

**ExoPAG 26  
Code of Conduct  
June 11-12, 2022**

Attendees of ExoPAG 26 are expected to abide by the following Code of Conduct.

The organizers are committed to making this meeting productive and enjoyable for everyone, regardless of gender, sexual orientation, disability, physical appearance, body size, race, nationality or religion. We will not tolerate harassment or bullying of participants in any form. Please follow these guidelines:

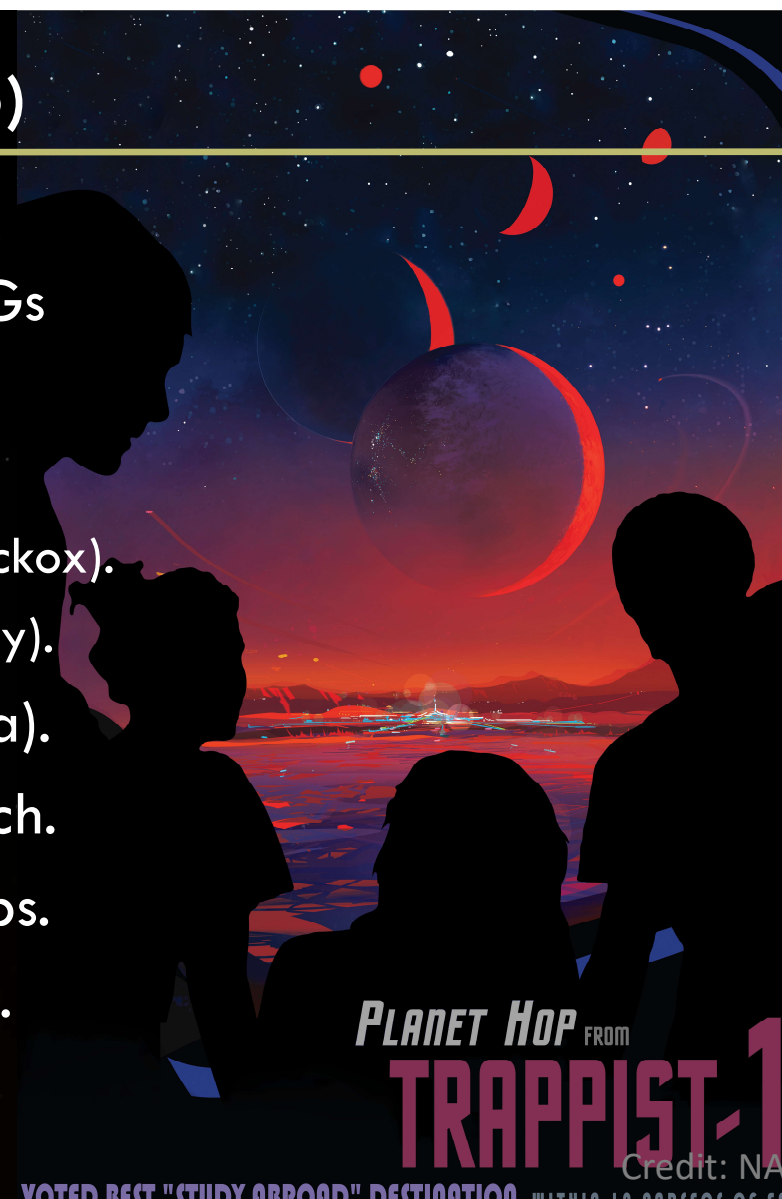
- Behave professionally. Harassment, bullying, and sexist, racist, or exclusionary comments or jokes are not appropriate. Harassment includes sustained disruption of talks or other events, inappropriate physical contact, sexual attention or innuendo, deliberate intimidation, stalking, and photography or recording of an individual without consent. It also includes offensive comments related to gender, sexual orientation, disability, physical appearance, body size, race or religion.
- All communication should be appropriate for a professional audience including people of many different backgrounds. Sexual language and imagery is not appropriate.
- Be kind to others. Do not insult or put down other attendees. Critique ideas, not people.
- If participants wish to share photos or contents of talks/slides of any attendee or speaker on social media, we ask that they first get permission.

Participants asked to stop any inappropriate behavior are expected to comply immediately. Attendees violating these rules will be asked to leave the event at the sole discretion of the organizers.

Any participant who wishes to report a violation of this policy is asked to speak, in confidence, to Hannah Jang-Condell ([hannah.jang-condell@nasa.gov](mailto:hannah.jang-condell@nasa.gov)) or Michael Meyer ([mrmeyster@umich.edu](mailto:mrmeyster@umich.edu))

## ExoPAG Recent Activities (since ExoPAG 25)

- Reviewing proposals/reports for/from SAGs/SIGs
- New APD Cross PAG activities:
  - Astro 2020 Discussions (met with P. Hertz).
  - Cross PAG SAG on URM in APD Space Science (R. Hickox).
  - Cross PAG SAG on Great Observatories (G. Tremblay).
- ExoExplorers 2022 program on-going (T. Kataria).
- Report out to PAC in February and APAC in March.
- Supporting GOMAP Precursor Science Workshops.
- New actions re: Astro 2020 (e.g. met w/ NExSS).
- Review new proposed findings.



PLANET HOP FROM  
TRAPPIST-1

Credit: NASA

VOTED BEST "STUDY ABROAD" DESTINATION

# Current Status of SAGs and SIGs

Close Year	SAG or SIG	Title	Lead
----	SIG 2	Exoplanet Demographics (on-going)	Christiansen & Meyer
----	SIG 3	Exoplanet Solar System Synergies (on-going).	Meadows & Mandt
----	SAG 21	Stellar Contamination on Transit Spectra (final report accepted)	Rackham & Espinoza
----	SAG 22	Exoplanet Host Properties (final report accepted)	Pepper, Stark, & Hinkel
----	SAG 23	Debris Disk Properties of Exoplanet Hosts (initiated)	Debes, Rebollido, & Hasegawa



## ExoPAG 26 Business Meeting: June 12 10:45-12:15 pm PDT

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- Update on new SAG23 (I. Rebolledo).
- Discuss and vote on proposed finding concerning XRP
  - As advertised on exopagannounce email (see Slack posting).
- Share new ideas for ExoPAG priorities and activities.
  - New Cross PAG SAG in support of GOMAP Activities for IROUV?
- Review of progress on past suggested actions.
- Feel free to share announcements for the community.
  - TDAMM (J. Pepper)

## What are “ExoPAG Findings”?:

- Process for whole community to contribute to analyses forwarded to Astrophysics Division leadership as input.
- We do not give “recommendations” but “findings” based on analysis.
- Three findings approved in January 2020 and one in March 2021.  
<https://exoplanets.nasa.gov/exep/exopag/exopagFoundingDocuments/exopag-findings/>
- Ideas for new findings solicited from community (e.g. ExoPAG email and at Business Meetings) and discussed at community forum (e.g. Summer ExoPAG).
- Those with community support are reviewed by ExoPAG EC and top 1-3 findings put forward to ExoPAG for a vote (more than 2/3 support needed to “pass”).
- Ideas not adopted (or selected for vote) can be kept and re-discussed in future.
- Affirmation of findings generally scheduled for winter ExoPAG meeting

## ExoPAG Meeting 26

June 11-12, 2022

- ExoPAG Code of Conduct is on the meeting site and slack
- Be generous during our first large hybrid meeting
- Q&A are part of schedule (chairs will keep us on time!)
- Check slack banner for info (webex chat is disabled)
- Preliminary slides are in a google drive.
- Q&A: chairs guide, moderators ask online questions, speakers can add more in Q&A slack thread.
- Refreshments- coffee, tea and water in the room.
- Lunch places w/i walking distance (list on check-in table)
- Flyer on check-in table re: ExEP events at AAS.
- Vote during the business meeting via google form.

# ExoPAG Meeting 26

June 11-12, 2022

- Meeting Website & Agenda: <https://go.nasa.gov/3zsl5vg>
- ExoPAG Slack channel <https://bit.ly/exopagslack>
- ExoPAG Google Drive: <https://bit.ly/exopag26-google>
- Conference Q&A Tool: <https://bit.ly/QANDA26>
- ExoPAG FAQ Document: <https://bit.ly/exopag-FAQ>
- Finding Voting Poll: <https://bit.ly/finding-vote>
- Suggestions Form: <https://bit.ly/exopag-suggestion>
- Proposed Findings Form: <https://bit.ly/exopag-findings>



Scan to join the  
Q&A session