

Schedule for Habitable Worlds 2021 Workshop (all times EST)

Tuesday, February 23 Star-Planet Interactions

- 12:00 – 12:09 [Introductory Remarks](#)
Natalie Hinkel (SwRI)
- [Theme 1: Stellar Activity and Life](#)
- 12:10 – 12:19 Julián Alvarado-Gómez (Leibniz Inst. Astrophysik, Potsdam)
[Plenary Talk](#): “Eruptive Events in Active Stars: Lessons Learned From Numerical Simulations”
- 12:20 – 12:29 Chris Davis (U. Washington)
[Plenary Talk](#): “Effects of M-dwarf UV Variability on Detecting and Interpreting Biosignatures”
- 12:30 – 12:44 Amy Glazier (UNC, Chapel Hill)
[Contributed Talk](#): “Constraints on Post-Superflare Exo-Auroral Emission with SOAR and the Evryscope Fast Transient Engine”
- 12:45 – 12:59 Raissa Estrela (JPL)
[Contributed Talk](#): “Diversity in Terrestrial Worlds: Analysis of Multi-dimensional Factors That Shape Their Evolution”
- 1:00 – 1:14 Keavin Moore (McGill U.)
[Contributed Talk](#): “Keeping M-Earths Habitable in the Face of Atmospheric Loss from a 1-D Atmosphere by Sequestering Water in the Mantle”
- 1:15 – 1:45 [Panel Discussion](#): “[Stellar Activity and Life](#)”
Julián Alvarado-Gómez, Chris Davis, Raissa Estrela, Amy Glazier, Keavin Moore
- 1:45 – 2:00 [Break](#)
- 2:00 – 2:45 [Open Engagement](#) – Session “A”
- [Theme 2: “Stars to Planets to Atmospheres”](#)
- 2:45 – 2:54 Vardan Adibekyan (Inst. Astrofisica de Canarias) and Natalie Hinkel (SwRI)
[Plenary Talk](#): “Observational Evidence of the Compositional Link Between Rocky Planets and Their Hosts” and “Combining Stellar Abundances and the Biogeosciences to Take a Critical Step Toward Detecting Life on Exoplanets”

- 2:55 – 3:04 Guillaume Gronoff (NASA LaRC)
[Plenary Talk](#): “Atmospheric Escape Processes and Planetary Atmospheric Evolution: From Misconceptions to Challenges”
- 3:05 – 3:19 Romy Rodríguez-Martínez (Ohio State)
[Contributed Talk](#): “Analytic Estimates of the Achievable Precision of the Properties of Transiting Exoplanets”
- 3:20 – 3:34 Christopher Colose (NASA GISS)
[Contributed Talk](#): “Effects of Spin-Orbit Resonances and Tidal Heating on the Inner Edge of the Habitable Zone”
- 3:35 – 4:04 Cecilia Garraffo (Harvard, SAO)
[Contributed Talk](#): “Studying Stars to Understand Planets [Studying How Space Weather, via Stellar Magnetic Fields, Influences a Planet]”
- 4:05 – 4:34 [Panel Discussion](#): “Stars to Planets to Atmospheres”
Vardan Adibekyan, Christopher Colose, Cecilia Garraffo, Guillaume Gronoff, Natalie Hinkel, Romy Rodríguez-Martínez
- 4:35 – 5:00+ [Open Engagement](#) - All