The 51 Pegasi b Fellowship provides postdoctoral scientists with the opportunity to conduct theoretical, observational, and experimental research in planetary astronomy.

Established in 2017, the Heising-Simons Foundation's 51 Pegasi b Fellowship is named for the first exoplanet discovered orbiting a Sun-like star. The growing field of planetary astronomy studies celestial objects both within and beyond our solar system, bridging planetary science and astronomy.

From accelerating our understanding of planetary system formation and evolution in our solar system and beyond, to advancing new technologies for detecting Earth-like worlds, 51 Pegasi b Fellows make unique contributions to the field.

The Fellowship provides:

- Up to \$415,000 in support for independent research over three years with the option to extend to a fourth year.
- Mentorship by an established faculty member at the host institution.
- An annual summit to develop professional networks, exchange information and ideas, and foster collaboration.
- Option to apply for up to one year of unused funds to support the Fellow in a future faculty or permanent staff position at a university or non-profit institution.

FELLOWSHIP **PROGRAM IN** NUMBERS



Fellowships awarded to date



for Fellows and the larger astronomy community to learn, build communi and develop new ideas for the field



Fellows' Research Projects

Annual Convenings **Professional Development** Opportunities



PARTNERING INSTITUTIONS



51 Pegasi b

The Heising-Simons Foundation is a family foundation based in Los Altos and San Francisco, California. The Foundation works with its many partners to advance sustainable solutions in climate and clean energy, enable groundbreaking research in science, enhance the education of our youngest learners, and support human rights for all people. Learn more at www.hsfoundation.org.



2023 FELLOWS



GARCÍA-MEJÍA Massachusetts nstitute of Technology ashionin<mark>g inn</mark>ovative astronomical nstruments to discover and characterize terrestrial exoplanets around small, cool stars.



HUAZHI GE California Institute of Technology esolving the cloud dynamics of giant lanets to inform future space missions and observations.

AKASH GUPTA Princeton University Takina an nterdisciplinary

approach to understand the physical and chemical orocesses shaping the atmospheres of Earthind Neptune-like planets

MARIA

STEINRUECK

nabling more

University of Chicago

accurate observational

interpretations and

predictions across a

range of exoplanet

types through three-

dimensional climate

nodelina

RIXIN LI University of California, Berkeley

I. He.

SAMUEL YEE

larvard University

clues to planetary

formation through

the most extensive

demographic study of

Hot Jupiters to date.

Surfacing trends and

Jsing advanced computational models o clarify planetesimal ormation mechanisms and build out a more complete, coherent picture of planet creation.

BEN K. D. PEARCE Johns Hopkins

100

University Demonstrating the processes that led to the emergence of life on Earth by simulating the formation and evolution of biological compounds in reshwater ponds.

FUTURE FELLOWS

The 51 Pegasi b Fellowship is an open application process, recurring annually. Candidates should be interested in pursuing theoretical, observational, or experimental research in the field of planetary astronomy, and hold a doctoral degree in astronomy, physics, earth and planetary sciences, chemistry, mathematics, engineering, or a related discipline by the start of the Fellowship. For more information and to apply:

visit www.51pegasib.org

51 Pegasi b Fellows gather at the 2022 summit

2021 AND 2022 FELLOWS





onstructina theoretical ramework to steer terpretations of observational data toward promising answers.



MALENA RICE







SHREYAS VISSAPRAGADA Harvard University

Elucidating the olution of gasrich exoplanet atmospheres with precise observations of outflowing helium.



YAPENG ZHANG California Institute

onducting a robust ensus of the chemica atmospheres.



A REAL PROPERTY.

WHERE ARE THEY NOW?



University of California, Santa Cruz Empowering better

EMILY MARTIN

PAUL DALBA

California, Santa Cruz

Leading expansive

research programs

o map unknown

exoplanets and

identify underlying

mechanisms that

impact planetary

system formation

University of

parameters

of massive

observations of the solar system and peyond by designing and building novel instruments.

RACHAEL

Expanding the limits of observation techniques to distinguish stellar activity from exoplanet signals.

ROETTENBACHER

Yale University

and the second second

J.J. ZANAZZI Iniversity of California, Berkelev Predicting the ways planets perturb heir birthplace environments to understand the chaotic processes that sculpt exoplanetary systems.