

Astronomy and Exoplanet Research Priorities

NAS Exoplanet Science Strategy Committee

Cyndi Atherton, Science Program Director

April 20, 2018

Our programs









Science Portfolio



Astronomy and Cosmology



Fundamental Physics

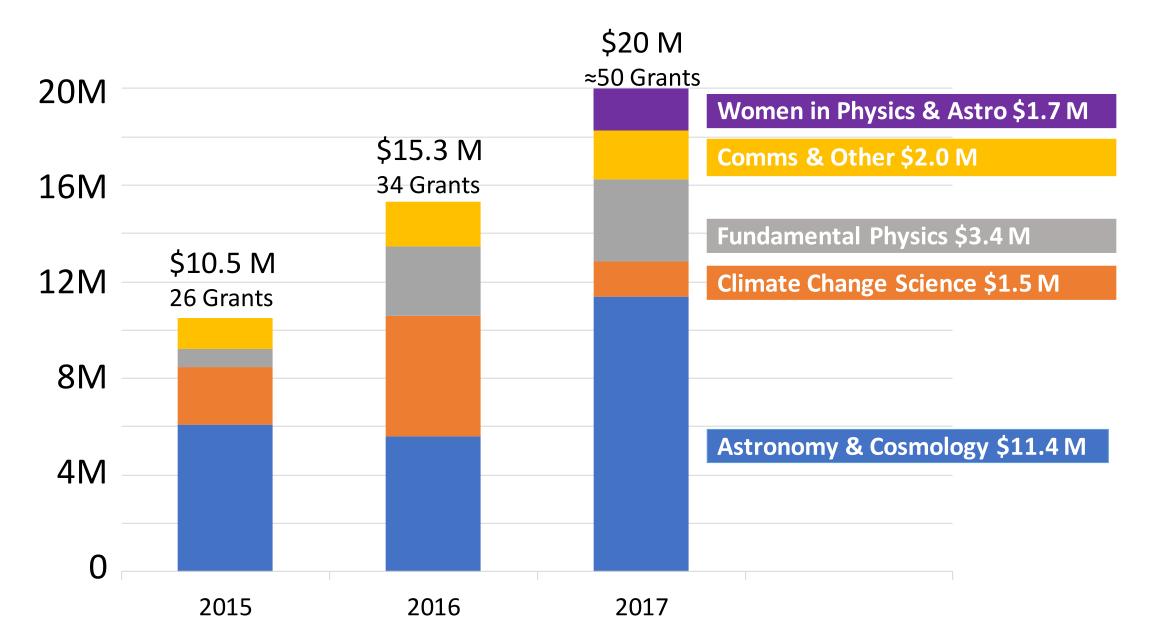


Climate Change Science



Women in Physics and Astronomy

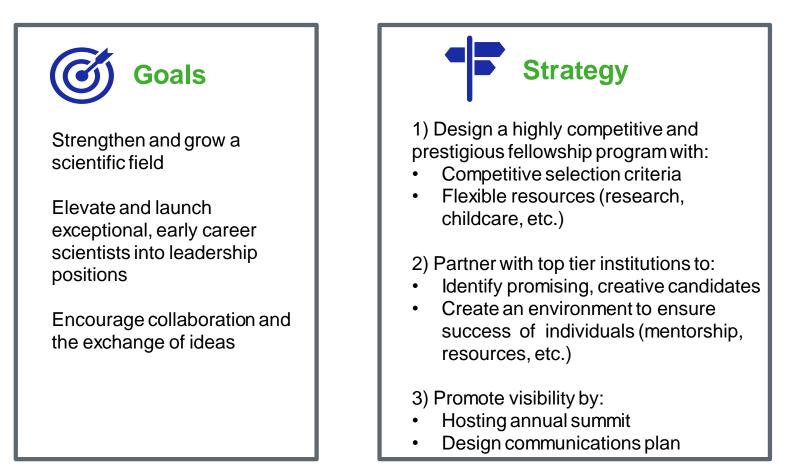
Recent Science Investments





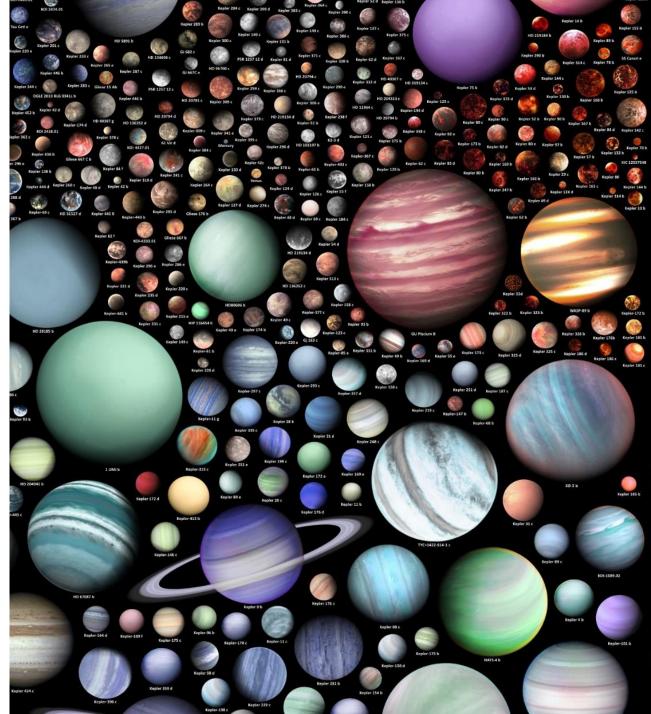
Mission

To advance fundamental knowledge by supporting exceptional, early career scientists to explore and conduct novel research that leads to ground-breaking discoveries.

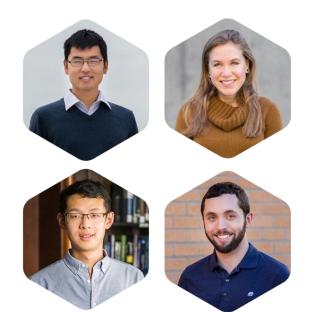


What does the Fellowship provide?

- Up to **\$375,000** over three years
- Time to establish distinction and leadership
- Mentorship by established faculty member
- Annual summit:
- **N**etwork
- **C**ollaborate
- Exchange ideas















Berkeley

Massachusetts

Institute of Technology





















THE UNIVERSITY OF CHICAGO



TEXAS AT AUSTIN





Yale

Good Intentions Are Not Enough: A note about the 51 Pegasi b Fellowship



by Cyndi Atherton February 2, 2018 in Science

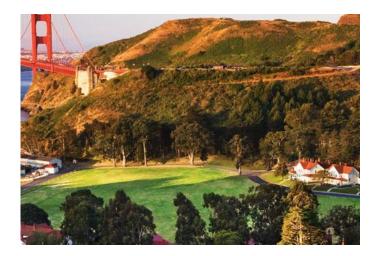
We are tremendously proud of the eight new 51 Pegasi b Fellows announced earlier this week. They are among the finest in the field, and we celebrate their selection. But we also realize that our program has room for improvement with respect to gender diversity, and we'd like to thank our astronomy colleagues for calling us on where we have fallen short. Their feedback has brought reflection, self-critique, and, hopefully, change and improvement. We are especially appreciative of the feedback because our Foundation is funding projects to address gender inequities in physics and astronomy in the U.S.

Upcoming Events

Building on August 2017 events



51 Pegasi b process working group May 2018



51 Pegasi b Annual Summit August 15-17, 2018





Some Examples of our Planetary Astronomy Grants

<complex-block></complex-block>	Fundamental Research	<image/>	<image/>
 Direct imaging Indirect imaging Stand alone telescopes 	 Telescope time Developing algorithms and visualization for satellite products Research arising from new instrumentation 	 Emerging Researchers in Exoplanets UCSC Summer Exoplanet Workshop 	 Museum exoplanet exhibits National Academy of Sciences Decadal Study

\$300k - \$2.5M

\$50k - 100k

\$100k - 200k



How do we source and prioritize grants (since we don't accept unsolicited proposals)?







Science

nature

















Science Advisory Board

Co-funding examples













Questions?