## NASA Hubble Program Fellowship

- Since 2018, the NHFP postdoctoral fellowship program now covers all of NASA astrophysics. Sponsored by NASA, administered at STScI.
- The 3 original categories of fellowships are preserved under the NHFP corresponding to their relevant science questions
  - *How does the Universe work?* Einstein Fellows
  - *How did we get here?* Hubble Fellows
  - Are we alone? Sagan Fellows
  - 0
- Hubble Lead Andy Fruchter at STScI, Sagan Lead Dawn Gelino at IPAC and Einstein Lead Paul Green at CXC

## **NHFP Selection**

- **2020** Fellows selected in Miami last January in NOLA
  - 50 reviewers, 7 panels, 8 Chairs
  - 380 applicants, 28 Offers, 4 declines

- **2021** Fellows
  - Application deadline Nov 4, 2020, Letters due Nov 12
  - Selection next January 19-22, 25-26
  - Recruiting ~complete for 7 panels

### **NHFP Selection Panels**

- Compact Objects & /Accretion
- Physics & Cosmology
- Galaxies/IGM
- Milky Way & Stellar Populations
- Stellar Physics
- Proto-planetary/Debris Disks
- Exoplanets
  - $\Rightarrow$  Merging Panel

#### NHFP Seeks to Spread the Wealth

- At most 2 new fellows will be approved for any single institution in a given year.
- No more than 5 fellows at any single host institution, except for short periods of overlap.
- Thus in any given year, some institutions may only be allowed to take one new fellow.
- We expect that the following institutions will only be able to host one new (2021) fellow: *Princeton*.

#### **Selected Fellows**

<u>Year</u>	<u>Einstein</u>	<u>Hubble</u>	<u>Sagan</u>	<u>Total</u>
2020	8	7	8	23*
2019	7	11	6	24
2018	7	12	5	24
2017	8	17	3	28
2016	12	15	6	33
2015	14	17	6	37

# **NHFP Symposium**

- **2020** Symposium 2d merged, 1st virtual
- Sep 21-25, noon-4pm EDT
- ~70 talks (abstract deadline was Fri Sep 20)
- Non-science sessions
  - NHFP Against (Anti-Black) Racism
  - Benefits & Policies (w/STScI Admins & Program Scientist Pat Knezek )
  - Open Mic (E/PO work, pandemic cooking, songs,...)

## **Potential Benefits Changes**

•	Allow applications up to 4 years post-PhD for extenuating personal circumstances*	$\checkmark$
•	All NHFP hosts must offer employees status	$\checkmark$
•	Support grad student travel*	?
•	Pay for collaborator visits*	?
•	Expand hosts to include NASA research centers - Goddard, Marshall, Ames	?
•	Pool of funds to support BIPOC mentoring	?

\* Intention is to be more "family-friendly".

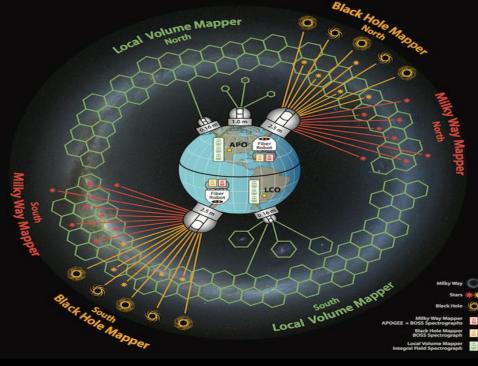
## **NHFP Review by NASA**

- NASA will hold a review of the NHFP in Spring 2021
- Intent is not to judge the value of the program, which is already known to be strong, but to identify ways it might be improved
- Both Leads and Fellows themselves have identified a number of potential improvements, some of which have been implemented. Others may be impossible to achieve, but some are surely feasible
- Reviewers are being solicited now



Milky Way Mapper stars in IR at high-res

Local Volume Mapper
IFU of nearby galaxies



# SDSS-V, SAO + CSC

- SAO joining SDSS-V as a full member, includes CXC/MIT
- **CXC** chipping in 50% of membership cost (\$115k/yr)
- CSC: 315k sources through 2014 <u>http://cxc.harvard.edu/csc2/</u>
  - **Only covers ~2% of sky**
  - □ Much better sensitivity and spatial resolution than eROSITA!
  - ~45% have optical counterparts with mag <21</p>
- □ Stellar and XRB CSC counterparts in the Galactic Plane represent a unique treasure trove
- Best optical/IR counterparts being identified now with CatSci group
- **Timely expansion of the CSC to newer archival data is important.**
- CXC will serve SDSS-V data products (spectral properties and flux-calibrated digital spectra) to the community on a regular schedule