

Dear astronomy community,

We write to express concern about recent events on the Maunakea summit with regards to the construction of the Thirty Meter Telescope (TMT). We call upon the astronomy community to recognize the broader historical context of this conflict, and to denounce the criminalization of the protectors on Maunakea. We urge the TMT collaboration and the government of Hawai'i to desist from further arresting or charging protectors, and to remove military and law enforcement personnel from the summit. Please join us by signing this letter (using this [link](#)) and by committing to action (examples are listed below).

Construction of TMT on Maunakea was scheduled to resume Monday, July 15, 2019. On July 14, 2019, [AP reported](#) that unarmed National Guard units will be involved in transporting personnel and supplies, and enforcing road closures. Exact details of the situation on the mountain are dynamic, but as of Wednesday, July 17, 2019, the authors of this letter were alarmed to see multiple confirmations on social media that local law enforcement has begun arresting native Hawaiians who are peacefully occupying the summit and blocking the road to the construction site.

The authors of this letter want to pause and recognize the significance of TMT in determining future scientific pursuits within mainstream academic astronomy. We want to acknowledge the investment that so many colleagues within the astronomy community have made towards the project's completion. **We write today not to place a value judgment on the future of TMT on Maunakea, but to question the methods by which we are getting the telescope on the mountain in the first place.** We ask that the community pause and consider what it means that, armed or not, the military and the police have become involved in the project's deliberations with the protectors of Maunakea.

We want to echo the work of Indigenous scholars and communities in pointing out how US-based histories of conquest have been exploitative and destructive to Indigenous ways of knowing (science) and being (cosmology) in the continental US and in the Hawaiian context. These histories progressed in lock-step with the development of western "sciences" of personhood: of who and/or what is human, and therefore who must be subhuman, and thus must be subject to control via mechanisms of policing, incarceration, and military violence. As Hawaiian scientist Aurora Kagawa-Viviani writes, "To me, practices of science in its present form smell a lot like the American Manifest Destiny associated with terrible loss for so many indigenous communities."^[1]

We evoke this history because we recognize that the events surrounding TMT occur within a context of US-based injustice in this particular historical moment, including but not limited to the ongoing disproportionate policing and incarceration of members of Indigenous, Black, and brown communities in the US, and the detention of refugee migrants in concentration camps at the US border. To be explicit: institutions of policing, incarceration and militarization have a long history of being used to harm marginalized, racialized communities in this country.

As astronomers, we recognize that our science relies on access to resources; we also recognize the singularity of Maunakea as an ideal observation site in the northern hemisphere. We want to acknowledge that there are many senior members of our international community who have devoted their careers to the telescope design and program, and that many junior members have the futures of their careers riding on the telescope's completion. We also recognize how this issue has been deeply divisive and disruptive within the Kānaka Maoli community.

We realize that members of the astronomy community see the exigence in starting the construction as soon as possible for a number of complex political and economic reasons. However, we ask whether expedience must come through violation of consent and leverage of apparatuses of state-sanctioned violence. We ask the community to consider whether the future of our field is worth the damage to our relationship with Kānaka Maoli by continuing to criminalize Maunakea protectors on their ancestral land. To quote Prof. Chanda Prescod-Weinstein, we ask that astronomers also “think of the lasting consequences for us of being a community that partners with the military and the police on indigenous land and then publicly brands itself as being about wonder and the majestic.”^[2]

To reiterate our demand at the beginning of this letter, we ask that members of the astronomy community leverage their power to oppose further violence against Maunakea protectors. We ask that the community takes this action as a first step towards a future in which, as Kanaka scholar Sara Kahanamoku writes, “the practice of science is truly ethical: where human rights, including the rights of indigenous people to self-determination, are upheld through the practice of science.”^[3]

Below we present a(n incomplete) list of actionable items and further resources:

Actionable items:

1. Sign in support of this letter (link [here](#)) and the following demands:
 - a. Ask the TMT collaboration and the Hawaiian government to remove military / police presence from the mauna, to stop arrests, and to not charge protectors who have already been arrested
 - b. Ask the TMT collaboration to engage protectors in discussion with an aim to reach consensus
2. Watch the livestream and bear witness to events on the mauna:
<https://www.facebook.com/Kanaeokana/videos/485669822180209/>
3. Contribute to the bail fund for the kūpuna (Kānaka Maoli elders) and their assistants who have already been arrested: <http://hawaiicommunitybailfund.org/>
4. Donate to KAHEA, a community-based organization that is also helping with legal funds for Maunakea protectors: <http://kahea.org/>

Citations and further resources:

1. [“Redirecting the lens onto the culture of mainstream science” by Aurora Kagawa-Viviani](#)
2. [“An Urgent Plea to Fellow Astronomers” by Chanda Prescod-Weinstein](#)
3. [“The fight for Mauna Kea and the future of science” by Sara Segura Kahanamoku](#)
4. [“We live in the future: come join us” by Brian Kamaoli Kuwada](#)
5. [“Multicultural Settler Colonialism and Indigenous Struggle in Hawai’i: the Politics of Astronomy on Mauna a Wākea” by Iokepa Casumbal-Salazar](#)
6. [“Decolonization is not a metaphor” by Eve Tuck and K. Wayne Yang](#)

This letter was written by astrophysics graduate students at TMT partner institutions. We acknowledge the relative privilege that we have even as graduate students at these institutions to openly speak out about our concerns with the process of telescope construction. We want to acknowledge our colleagues who are in similar or more junior career stages, whose career prospects are more closely tied to the construction of the telescope, and who may be unable to fully express their concerns and criticisms about this project. While many members of the astronomy community have openly opposed aspects of telescope construction in the last several days, we ask that the community also collectively considers how certain members have been silenced, and how that also speaks to the complex, interlocking structures of power within academic astronomy.

Finally, we acknowledge some of our positionalities as settlers occupying unceded ancestral territories of multiple Indigenous groups on the continental US (including but not limited to that of the Chochoyeno-Ohlone people and the Tongva-Gabrielino people).

We invite the astronomy community to suggest more links and ideas on how to divest from using state-sanctioned violence in the construction of facilities for our field’s future. Again, please consider [co-signing this letter](#) to show your support and provide ideas, and using the power available to you by your positionality to fulfill one or more of the action items above.

Signed,

Signatories from TMT affiliated institutions:

1. Sal Wanying Fu (Incoming G1 at UC Berkeley and NSF graduate fellow)
2. Mia de los Reyes (G2 at Caltech and NSF graduate fellow)
3. Sarafina Nance (PhD student at UC Berkeley and NSF graduate fellow)
4. José Flores Velázquez (G2 at UC Irvine and NSF graduate fellow)
5. Francisco Mercado (PhD student at UC Irvine)
6. Thea Faridani (Incoming G1 at UCLA)
7. Hilding Neilson (CTLA Assistant Professor at the University of Toronto)
8. Dillon Dong (G3 at Caltech)
9. Sophia Nasr (PhD student at UC Irvine)
10. Ellianna S. Abrahams (PhD student at UC Berkeley, NSF Graduate Research Fellow)
11. Kyle M. Kabasares (PhD student at UC Irvine)

12. Keri Hoadley (Post-doc at Caltech)
13. Shreyas Vissapragada (PhD student at Caltech, NSF graduate fellow and PD Soros fellow)
14. Juan Camilo Buitrago-Casas (PhD student at UC Berkeley)
15. Christina Manzano-King (PhD student at UC Riverside)
16. Sean Pike (PhD student at Caltech)
17. Brittany Miles (PhD student at UC Santa Cruz, NSF graduate fellow)
18. Ethan Jahn (PhD student at UC Riverside)
19. Ashay Patel (Physics PhD student at Caltech)
20. Brian Lorenz (Incoming G1 at UC Berkeley and NSF graduate fellow)
21. Elizabeth Ann Collins (BA from UH Mānoa, bachelors in Anthropology; certificate in PACE (Peace and Conflict Education))
22. Tenley Hutchinson-Smith (PhD student at UC Santa Cruz, Spelman College)
23. Charles Xu (PhD student at Caltech)
24. Renee Hlozek (Assistant Professor at University of Toronto)
25. Emily Martin (Postdoc at UCSC)
26. Holly Christenson (PhD student at UC Riverside, NSF Graduate Research Fellow)
27. Dr. Bryan Mendez (UC Berkeley Space Sciences Laboratory)
28. Ekta Patel (Miller Postdoctoral Fellow at UC Berkeley)
29. Nathan Sandford (PhD student at UC Berkeley and NSF graduate fellow)
30. Suchitra Narayanan (Senior at UC Berkeley)
31. Aida Behmard (G2 at Caltech and NSF graduate fellow)
32. Serafina Gajate (Graduate of University of Hawai'i at Hilo (Anthropology and Hawaiian Studies))
33. Veronica Dike (PhD student at UCLA and NSF Graduate Research Fellow)
34. Adam Trapp (PhD student at UCLA)
35. Vanshree Bhalotia (PhD student at UH Manoa)
36. Seyda Ipek (Postdoctoral Researcher at UC Irvine)
37. Sarah Blunt (PhD student at Caltech)
38. Yigit Ozcelik (Undergraduate student at University of Toronto)
39. Briley Lewis (PhD student at UCLA, NSF Graduate Research Fellow)
40. Evan Haze Nuñez (Incoming G1 at Caltech and NSF GRFP Fellow; Cal Poly Pomona)
41. Jessie Christiansen (Research Scientist, Caltech/IPAC-NExScl)
42. Richard Mebane (PhD student at UCLA)
43. Peishi Cheng (PhD student at Caltech)
44. Dan Zevin (Space Sciences Laboratory, UC Berkeley)
45. Anthony Pahl (PhD student at UCLA)
46. Shea Charles (Student at University of Hawaii at Mānoa)
47. Charles Goullad (PhD student at UC Berkeley)
48. Anonymous PhD student in the Office of Public Health Studies at University of Hawai'i at Mānoa; Hui Maui Ola
49. Rhondale (Ron) Tso (PhD student at Caltech, NSF Graduate Fellow, Ford Fellow, and Gates Scholar)

50. Caleb Caswell-Levy (PhD student at UC Berkeley)
51. Fatima Abdurrahman (PhD student at UC Berkeley)
52. Isabella Trierweiler (PhD student at UCLA)
53. Aleksey Maro (PhD student at UC Berkeley)
54. Allison DeRego (Undergrad student at University of Hawai'i at Mānoa; Native Hawaiian student, We are Mauna Kea)
55. Karli DeRofo (PhD student of Anthropology at UC Santa Cruz, Native Hawaiian and Mauna Kea Protector)
56. Benjamin Zhang (Undergraduate astronomy student at UC Berkeley)
57. Casey Brinkman (Institute for Astronomy, Ph.D student)
58. Jenna Samuel (PhD student at UC Davis)
59. Coral Wheeler (Postdoc at Caltech)
60. Sara ElShafie (PhD student at University of California, Berkeley; UC Museum of Paleontology)
61. Jordan Fleming (PhD student at UC Berkeley, Astronomy Department)
62. Michael Lemmen (Instrument Technician at Subaru Telescope)
63. Yuping Huang (G1 at Caltech)
64. Bradford Barker (Post-doctoral scholar, UC Merced)
65. Keming Zhang (PhD student at UC Berkeley)
66. Steven Giacalone (PhD student at UC Berkeley)
67. Sophie Crisp (PhD student at UCLA and NSF Graduate Research Fellow)
68. Diyala Shihadih (PhD candidate at UC Berkeley)
69. Piper H (Postdoc at UH Mānoa)
70. Richard Rath (Associate Professor at University of Hawai'i at Mānoa)
71. Hyewon Suh (Postdoctoral researcher at Subaru Telescope)
72. Kevin Hardegree-Ullman (Postdoc at Caltech/IPAC-NExSci)
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101. Deno Stelter (Postdoc at UCSC)
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108. Jessica Doppel (PhD student at UC Riverside)
109. Hrishika Basava (Undergraduate at Caltech; Intern at Carnegie Observatories)
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145. Norhan Osman (Undergraduate at UCSC)
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147. Vetri Velan (PhD candidate at UC Berkeley)
148. Margaret Mary Downey (PhD candidate, UC Berkeley; UAW 2865)
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150. Evan Morris (PhD student at UCSC)

Other signatories:

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61. Melina Thévenot (astronomy (community science) volunteer located in Germany)
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66. Rachel Frisbie (PhD student at Michigan State University)
67. Julie Rathbun (Planetary Science Institute)
68. David Kipping (Professor at Columbia University)
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76. Hapaki Nakamura
77. Steven Finkelstein (Faculty at UT Austin)
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80. Dr. Emil Rivera-Thorsen (Postdoctoral researcher at Stockholm University, Sweden)
81. Rachael L. Beaton (Hubble Fellow, Carnegie-Princeton Fellow at Princeton University)
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84. Sarah Gossan (Postdoctoral fellow at Canadian Institute for Theoretical Astrophysics (CITA))
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97. Cathleen Fry (Postdoc at LANL)
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99. Barbara Cohen (Scientist at Goddard Space Flight Center)
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122. Tia Martineau (PhD student at the University of New Hampshire)
123. Naylynn Tañón Reyes (Undergraduate student at San Diego Mesa College)
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127. Bridget Falck (Research Scientist at Johns Hopkins University)
128. Christine O'Donnell (PhD student at University of Arizona)

129. Peter Yoachim (University of Washington, LSST)
130. Russell Deitrick (Postdoc at University of Bern)
131. Megan Thompson (Undergraduate Astronomy and Physics student at the University of Texas at Austin)
132. Olivia Howard (Undergraduate student at the University of Texas at Austin)
133. Kay Kirkpatrick (University of Illinois, Math & Physics)
134. Claire Murray (Postdoctoral fellow at Johns Hopkins University)
135. Natalie Nicole Sanchez (PhD student at the University of Washington, Seattle)
136. Rian Robison (Undergrad at University of Texas at Austin)
137. John Johnson (Harvard)
138. Christopher Morrison (University of Washington, LSST)
139. Christopher Hirata (The Ohio State University)
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141. Mason NG (PhD student at MIT)
142. Adrian Crawford (Undergrad at the University of Texas at Austin)
143. Dana Koeppel (PhD student at Michigan State University)
144. Allison Kirkpatrick (Assistant professor at University of Kansas)
145. Mariarosa Marinelli (Undergrad at Virginia Commonwealth University)
146. Ilyse Clark (Undergrad at The University of Texas at Austin)
147. Heather Pantell (PhD student at University of Rochester)
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152. Kristen Garofali (Postdoctoral Fellow at the University of Arkansas)
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154. Alexander Criswell (PhD student at the University of Minnesota)
155. Mike Alexandersen (Postdoc at Academia Sinica Institute of Astronomy and Astrophysics)
156. Debby Tran (PhD Student at University of Washington)
157. Fiona Panther (Postdoctoral researcher, UNSW Canberra)
158. Russell Van Linge (Carnegie DTM)
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160. Clara Brasseur
161. Melissa L. Graham (University of Washington)
162. Lissie Connors
163. Locke Patton (PhD student at Harvard University)
164. Paul Bergeron (Postdoc at Michigan State University)
165. Guadalupe Tovar (PhD student at the University of Washington, NSF Graduate Fellow)

166. Sam McDermott (Schramm postdoctoral fellow at Fermilab)
167. Imad Pasha (PhD student at Yale, NSF Graduate Fellow)
168. Katherine Rainey (PhD student at the University of Colorado Boulder)
169. Xandria Quichocho (Undergraduate at Texas State University, Native Chamorro woman, Black Woman, equity researcher)
170. Virginia Price (PhD Student at Drexel University)
171. Oliver J. Hall (PhD student at University of Birmingham)
172. Daniel Grin (Assistant Professor (Physics) Haverford College)
173. Dalal El Youssoufi (PhD candidate at the Leibniz Institute for Astrophysics Potsdam (AIP))
174. Adham El-Batal (PhD Student at Boston University)
175. Anna S. Ross (Undergraduate student at Northern Arizona University)
176. Deryl Long (Astronomy Undergrad at the University of Michigan)
177. Anna S. Ross (Undergraduate student at Northern Arizona University)
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179. Joshua Lothringer (PhD student at University of Arizona)
180. Ilana Bromberg (Undergraduate at Stony Brook University)
181. Summer Ash
182. Brianna Lacy (PhD student at Princeton University)
183. Teal, D.J. (PhD student at University of Maryland)
184. Sarah Graber (Undergraduate at Columbia University)
185. Tyler Gordon (PhD student at University of Washington)
186. Andreia Carrillo (PhD student at UT Austin)
187. Jane Glanzer (PhD student at Louisiana State University)
188. Michelle Bannister (Postdoc at Queen's University Belfast)
189. Fernanda Nogueira (Undergrad student at Universidade de São Paulo)
190. Leo Y. Alcorn (York Science Fellow, York University)
191. Louis Abramson (Postdoctoral Fellow at Carnegie Observatories, Princeton University)
192. Laurin Gray (Astronomy & Physics undergraduate at University of Arizona)
193. Michael Zingale (Stony Brook University)
194. Kristin M. Block (University of Arizona Lunar and Planetary Laboratory)
195. Marvin Q. Jones, Jr. (PhD student, Indiana University)
196. Thaddeus Komacek (Postdoc at University of Chicago)
197. Brittany Lohman (Undergraduate student at Texas State)
198. Rabia Husain (Undergrad at UT Austin)
199. Tharindu Jayasinghe (PhD student at The Ohio State University)
200. Ashley L. Walker (Senior at Chicago State University)
201. KeShawn Ivory (incoming physics Master's student at Fisk University)
202. Erin Maier (PhD student at University of Arizona)
203. David Setton (PhD student at the University of Pittsburgh)
204. Eve V. North (PhD student at Cardiff University)
205. David Ball (PhD student at University of Arizona)

206. Katrina Litke (PhD student at University of Arizona)
207. Monica Vidaurri (Master's Student at George Mason University, NASA GSFC)
208. Grace Telford (PhD student at University of Washington, NSF graduate fellow)
209. Michael Daniel (Undergraduate at Whitman College)
210. Zoë Haggard (Undergrad at Pomona College)
211. Alexa Anderson (Undergraduate Student at Yale University, Astrophysics Major)
212. Cecilia Siqueiros (Undergrad student at MIT)
213. Erin Boettcher (Postdoc at University of Chicago)
214. Daniel D. Kelson (Carnegie Observatories)
215. Charity Woodrum (PhD student at the University of Arizona and NSF Graduate Research Fellow)
216. Dr. Julie N. Skinner
217. R. Andrew Sevrinsky (PhD student at University of Arizona)
218. Shireen Gonzaga (Technical editor, STScl)
219. Russell Owen (LSST and University of Washington)
220. José Sánchez-Gallego (Acting Assistant Professor at University of Washington)
221. Brian Zamarripa Roman (Physics PhD student at University of Central Florida)
222. Rodolfo Garcia (PhD student at University of Washington, Seattle)
223. Rachel Paterno-Mahler (Visiting Assistant Professor, Keck Science Center)
224. Sarah Kendrew (Instrument Scientist)
225. Zoya Vallari (Postdoc at Caltech)
226. Gerardo Guzman (Physics Undergraduate at The University of Texas at Austin)
227. Isabel J. Rodriguez (Graduate student at Oregon State University, Oregon NASA Space Grant)
228. Matthew Turk (University of Illinois)
229. Weixiang Yu (PhD student at Drexel University)
230. Valentina Peirano (PhD student Rijksuniversiteit Groningen)
231. Nathalia De Souza (Undergraduate student at Cal Poly, San Luis Obispo)
232. Katie Rink (Undergraduate at University of British Columbia)
233. Derek Fox (Penn State University)
234. Kate Rowlands (Johns Hopkins University)
235. Maitland Bowen (Undergraduate student at University of Michigan)
236. Erini Lambrides (PhD student at Johns Hopkins University)
237. Mahlet Shiferaw (Undergraduate at Harvard University, Joint Concentration in Astrophysics & Physics)
238. R. E. Hviding (PhD student at University of Arizona)
239. Trevor Dorn-Wallenstein (PhD Student at University of Washington)
240. Paola Montoya (Astrophysicist and MSc Student at Aberystwyth University)
241. Phoebe McClincy (Undergraduate student at Penn State University, Penn State Millennium Scholar)
242. Stephen A. Daire (MS Geographic Information Science and Technology University of Southern California, Instructor of Planetary Science and Technology Analog Research International Institute of Astronautical Studies)

243. Jacob Hamer (PhD student at Johns Hopkins University)
244. Cynthia Tarr (Employee at Adler Planetarium)
245. Peter Frinchaboy (Associate Professor, Texas Christian University)
246. Breanna Binder (Assistant professor at Cal Poly Pomona)
247. Duncan Watts (Research Assistant at Johns Hopkins University)
248. Kevin Hainline (Senior Research Associate at Steward Observatory)
249. Meredith Rawls (University of Washington, LSST)
250. Jennifer Connelly (Professor at RIT)
251. Ikaika Ramones (PhD student at New York University, Harvard University)
252. Harshil Kamdar (PhD Student at Harvard University)
253. Madison Smith (PhD student at Indiana University)
254. Meredith Hughes (Associate Professor at Wesleyan University)
255. Dr. Rachael Alexandroff (NSERC postdoctoral fellow at the Dunlap Institute for Astronomy and Astrophysics)
256. Nikki Rider (incoming PhD student at University of North Carolina, Chapel Hill)
257. Brian Frank (Associate Professor at Middle Tennessee State University)
258. Jacob Lustig-Yaeger (PhD candidate at the University of Washington)
259. David Fleming (PhD student at the University of Washington)
260. Lehman Garrison (Postdoctoral researcher at Center for Astrophysics | Harvard & Smithsonian)
261. Molly McDonough (B.S. Physics Student at Suffolk University)
262. Laura Watkins (Fellow at UVienna and ESO Garching)
263. Cody Dirks (Ph.D., Physics & Astronomy, Northwestern University, 2019)
264. Néstor Espinoza (Postdoc at MPIA, Bernoulli & IAU-Gruber Fellow)
265. Jeff Carlin (Research Associate at LSST)
266. Johnny Ho (PhD student at the University of Chicago, Enrico Fermi Institute)
267. Johnny Ho (PhD student at the University of Chicago, Enrico Fermi Institute)
268. Abigail Gonzalez (Undergrad student at Pomona College)
269. Melia Bonomo (PhD student at Rice University)
270. Brianna Thomas (PhD student at the University of Washington)
271. Taylor Stevenson (PhD student at the University of North Carolina, Chapel Hill)
272. Johanna Teske (Hubble Postdoctoral Fellow, Carnegie Observatories)
273. Yanhan Wang (rising junior at Colgate University)
274. Rita Tojeiro (Reader at the University of St. Andrews)
275. Julieta Gruszko (Pappalardo Fellow at Massachusetts Institute of Technology)
276. Emily Rauscher (Assistant professor at the University of Michigan)
277. Amanda Moffett (Postdoctoral Fellow at Vanderbilt University)
278. Abigail Lee (PhD student at University of Chicago)
279. Rushi Shah (Undergraduate research assistant at University of Texas at Austin)
280. Hannah Bish (PhD student at University of Washington)
281. Ramon Barthelemy (Assistant Professor of Physics and Astronomy at the University of Utah)
282. Gautham Narayan (Lasker Fellow, STScI)

283. Gouraf Khullar (PhD Candidate, Kavli Institute of Cosmological Physics, University of Chicago, Dept. of Astronomy & Astrophysics)
284. Manisha Shrestha (Postdoc at Liverpool John Moores University)
285. Sophia Sánchez-Maes (PhD student at Harvard, BS Astrophysics Yale)
286. John Lewis (PhD student, rising G7, Harvard-Smithsonian Center for Astrophysics; bachelors UCLA)
287. Lynn Buchele (Masters student at Wichita State University)
288. Allison Hughes (PhD student at University of Arizona)
289. Matthew Young, PhD (University of New Hampshire)
290. Carissa Avina-Beltran (Junior at SFSU, Santa Monica College)
291. Mehmet Alpaslan (Postdoctoral researcher at New York University)
292. Dr. Lou Nigra (Unaffiliated; retired)
293. Yigit Ozcelik (Undergraduate student at University of Toronto)
294. Ellen M. Price (PhD student at the Center for Astrophysics | Harvard & Smithsonian)
295. Cyril Creque-Sarbinowski (PhD student at JHU, NSF graduate fellow)
296. Benjamin Rackham (Postdoc at University of Arizona)
297. Trustin Henderson (Astrophysics undergraduate at Yale University)
298. Alice Burington (Undergraduate student at The University of Texas at Austin)
299. Kathryn J Daniel (Assistant Professor at Bryn Mawr College)
300. Charlotte Olsen (PhD student at Rutgers University)
301. Pedro Russo (Assistant Professor Astronomy & Society at Leiden University, the Netherlands; IAstro, Portugal)
302. Sam Alterman (BA, Physics, Williams College '18)
303. Mori OCo
304. David Fusilier (Bachelor of Science Physics and Astronomy at Wichita State University)
305. Brittany Davis (Assistant Professor at Allegheny College)
306. Jaclyn Baughman (B.S. Physics Student at Massachusetts Institute of Technology)
307. Julian Panehal (Cornell University & University of Hawaii Hilo Alumni)
308. Daniela Huppenkothen (University of Washington)
309. Christian Eistrup (Postdoctoral Fellow at University of Virginia)
310. Aleks Scholz (Observatory Director at University of St. Andrews, UK)
311. Michelle Nichols-Yehling (Director of Public Observing at Adler Planetarium)
312. Ray Sharma (PhD candidate at Rutgers University)
313. Adam Trotter (UNC-Chapel Hill)
314. Kaley Brauer (G2 at Massachusetts Institute of Technology, DOE Fellow)
315. David Wilson (Postdoc at UT Austin)
316. Anna Wright (PhD student at Rutgers University)
317. Alex Urban (Louisiana State University, LIGO Laboratory)
318. Larry R. Nittler (Staff Scientist at Carnegie DTM)
319. Alice Olmstead (Assistant Professor at Texas State University)
320. James Juno (PhD student at University of Maryland, Princeton Plasma Physics Lab)
321. Kirsten Hall (PhD student at Johns Hopkins University)

322. Kyle Dettman (PhD student at Rutgers University)
323. Brianne Gutmann (Postdoc at Texas State University)
324. Moiya McTier (PhD student at Columbia, NSF Graduate Research Fellow)
325. Kathryn Devine (The College of Idaho)
326. Tyler Metivier (Undergrad at University of Connecticut)
327. Kaitlyn Shin (PhD student at Massachusetts Institute of Technology)
328. Amelia Henkel (Recent Graduate, University of Connecticut)
329. Clare Staib-Kaufman (Undergraduate research assistant at Yale University)
330. Anthony Young (PhD student at Rutgers University)
331. Sunny Rhoades (Undergrad at Pomona College)
332. Marco Daniel Machado (Astronomy Educator at the American Museum of Natural History, Adjunct Lecturer at The New School & Physical Science Teacher at Midwood High School)
333. Ian Shuker (Financial Analyst at Universal, University of Florida)
334. Rydia Hayes-Huer (Undergraduate at Bridgewater State University)
335. Cannon Vogel (B.S. Physics Student at Massachusetts Institute of Technology)
336. Joseph V. DeMartini (PhD student at University of Maryland)
337. Adina Feinstein (PhD student at University of Chicago)
338. Daniel Giles (PhD student at Illinois Institute of Technology, Adler Planetarium)
339. Dr. Angelle Tanner (Associate Professor, Mississippi State University)
340. Elizabeth Pérez (PhD student at Harvard, National Science Foundation Graduate Research Fellow)
341. Oliver Price (PhD student at Mullard Space Science Laboratory, University College London)
342. Sofia Sheikh (PhD candidate at Penn State University)
343. Philip Rosenfield
344. Zach Berta-Thompson (Assistant Professor at University of Colorado Boulder)
345. Katherine Lutz (Astrophysics undergraduate at Yale University)
346. Bryan Terrazas (University of Michigan, Harvard University)
347. Kevin N. Ortiz Ceballos (Undergraduate at University of Puerto Rico, Researcher at Planetary Habitability Laboratory)
348. Matthew Wilde (PhD student at University of Washington)
349. Zachary Pace (PhD student at University of Wisconsin - Madison)
350. Stephanie Douglas (NSF fellow at CfA)
351. Marion Cromb (PhD student at University of Glasgow)
352. Misty Bentz (Associate Professor at Georgia State University)
353. Kelly Lepo (Academic Associate at McGill University)
354. Ry Walker (BS student at Yale University)
355. Jessica Edwards (University of Alberta (Alumna))
356. Lynda Williams (Professor of Physics, Santa Rosa Junior College; space4peace.org)
357. Jeremy Christian Kili'ohu Pelletier (MS Geography, Central Connecticut State University, The Northeast Organic Farming Association)
358. Dr. Audra K Hernandez (Assistant Scientist, University of Wisconsin - Madison)

359. Pranav Premnath (Undergraduate student at The University of Texas at Austin)
360. Henry Zovaro (PhD student at the Australian National University)
361. Keduse Worku (Undergraduate astronomer at Yale University)
362. Angus Beane (Graduate student at Harvard University)
363. Jacob Pilawa (Student at Colgate University)
364. Dr. Elaina Hyde (Adjunct Fellow at Western Sydney University)
365. Patrick Vallely (PhD student at Ohio State University, NSF Graduate Research Fellow)
366. Judy Twedt (PhD student at the University of Washington)
367. Duncan Christie (Incoming postdoc at the University of Exeter)
368. Julia Gross (PhD student at Columbia University)
369. H Perry Hatchfield (PhD student at University of Connecticut)
370. JJ Eldridge (Senior Lecturer, University of Auckland, Aotearoa New Zealand)
371. Alex McGrath (researcher in History of Science, Center for Astrophysics | Harvard & Smithsonian)
372. Maria Steinrueck (PhD student at University of Arizona)
373. Leah Fulmer (PhD student at the University of Washington)
374. Brooke Simmons (Lecturer in Astrophysics, Lancaster University, UK)
375. Leila Gabascova (PhD student at University of Grenoble Alpes)
376. Gloria Fonseca Alvarez (PhD student at University of Connecticut)
377. Junellie Gonzalez Quiles (Research Asisstsant at SURA/NASA GSFC)
378. Joshua Masagatani
379. Andrea Guzman Mesa (PhD student at University of Bern)
380. Paulette Blanchard (PhD Candidate at Unviersity of Kansas; UCAR Diversity & Inclusion Fellow - Absentee Shawnee Tribe of Oklahoma)
381. Charlotte Wood (PhD student, University of Notre Dame)
382. Nicolas Boardman (Postdoc at University of Utah, Department of Physics and Astronomy)
383. Rosie Alegado (Associate Professor, Oceanography & Sea Grant, University of Hawaii Mānoa)
384. Samuel Saribay Jr
385. Liz Skedd
386. Manodeep Sinha (CAS, Swinburne University of Technology)
387. Agustina Quesada (Engineer at Johns Hopkins University)
388. Alyosha Goldstein (Professor of American Studies, University of New Mexico)
389. Zhanpei Fang (BS Physics, MS candidate in Applied Physics at Stanford University)
390. Fernando Barceló (Undergraduate, Pomona College; Intern, Carnegie Observatories)
391. Donna Brillheart
392. Samuel Kai Lemmen
393. Jessy Kate Schingler
394. Jennifer L. Hoffman (Associate Professor of Physics & Astronomy, University of Denver)

395. Marianne Page Potvin (Engineering student at UQO)
396. Stevanus Kristiano Nugroho (Queen's University Belfast)
397. Tamara Khalaf (Undergraduate Astronomy student at the University of Waterloo)
398. Dr. Carl Rodriguez (Pappalardo Fellow at Massachusetts Institute of Technology)
399. Arjun Kumar (Student at Stanford University)
400. Kevin Longe
401. Jaime Francis Keaka Ulukou (The Hawaiian People; Hawaii)
402. Jeremy Young (PhD student at University of Maryland)
403. Peter Senchyna (PhD student at University of Arizona)
404. Luc Riesbeck (M.A. Candidate. Space Policy Institute at George Washington University)
405. Desiree Koanui (Film/TV Production Coordinator, WeAreMaunaKea)
406. Benjamin Sharkey (PhD student, University of Arizona)
407. Leanne Day (Incoming Assistant Professor at University of Hawai'i at Hilo)
408. Teddy Kareta (PhD student at the University of Arizona)
409. Joshua Reding (PhD student at University of North Carolina at Chapel Hill)
410. Hayley Beltz (Astronomy PhD student at University of Michigan)
411. Hank Corbett (PhD candidate at University of North Carolina at Chapel Hill and NSF Graduate Fellow)
412. Kate Storey-Fisher (PhD student at New York University)
413. Christiana McDonald-Spicer (Biology PhD student at ANU)
414. Milena Crnogorcevic (PhD student at University of Maryland)
415. Yasaman Homayouni (PhD student at University of Connecticut)
416. Imap Inhead (University of Hawaii)
417. Lauren Peters (Independent Indigenous Historian)
418. Dennis Foren (PhD student at Michigan State University, Visiting graduate student at UC San Diego)
419. Steven Margheim (Gemini Observatory)
420. Josh Simon (Carnegie Observatories)
421. Arthur D Harris Jr MD
422. Jana Grcevich (Outreach Coordinator at Columbia University, Adjunct at the American Museum of Natural History, Cooper Union)
423. Lea Hagen (Postdoc at STScl)
424. Rebecca Ljungren (Astronomy Education Program Coordinator, Smithsonian National Air and Space Museum)
425. Adriana Romero-Olivares (Postdoc at University of New Hampshire)
426. Erika Nesvold (Co-founder, JustSpace Alliance)
427. Antonio J. Porrás Valverde (PhD student at Vanderbilt University)
428. Douglas Long (STScl)
429. Anson Keoni Onishi
430. Zach Meissel (Ohio University)
431. Catie Ball (Graduate student at Cornell University)

432. Emily Lubar (Currently research staff at Penn State, starting as PhD student at UT Austin next month)
433. Kaia Smith (Undergraduate physics major, Scripps College)
434. Qiana Hunt (PhD student at the University of Michigan)
435. Evan Sneed (Senior Undergraduate Student at Penn State)
436. Catherine Grant (Research Scientist at MIT)
437. Aidan Iftikhar
438. teisha moe
439. Olivia Cooper (Undergrad at Smith College)
440. Germán Chaparro (Staff researcher at Universidad ECCI)
441. Suna Zekioglu (PhD student at Northwestern University)
442. Kevin R. Covey (Assoc. Prof in Dept. of Physics and Astronomy, Western Washington Univ.)
443. Sachie Yorck
444. Imre Diculous (University of Chicago)
445. David Charbonneau (Professor, Harvard University)
446. Zoe de Beurs (Undergraduate at University of Texas at Austin)
447. Noel Richardson (Embry-Riddle Aeronautical University)
448. Claire Kopenhafer (PhD student at Michigan State University)
449. Sinclair Manning (PhD student at UT Austin)
450. Jensen Lawrence (B.Sc student at the University of Waterloo)
451. Skye Chen (Undergraduate student at University of Waterloo)
452. Jonathan Jackson (PhD student at Penn State)
453. Amy L Dunn (BA UH Hilo Marine & Natural Science)
454. Jacob Apo
455. David Liao
456. Coralene Naki-Souza
457. Wendo Barajas Avilez (Neuroscience student at Lafayette College; The Academy Group, the Collegiate Scholars Program)
458. Kahea Payao
459. Angela Speck (Professor at UTSA, University of Missouri)
460. Troy Maloney (B.S., Astronomy, Humboldt State University, 2017)
461. Thomas Holden Dingus (Master's Student, East Tennessee State University)
462. Joseph Barranco (Professor, San Francisco State University)
463. Anya Nugent (PhD Student at Northwestern University)
464. Joaquín García de la Cruz (PhD student at Liverpool John Moores University)
465. Amanda Bauer
466. Michael Hammer (PhD student at University of Arizona)
467. Emrys Halbertsma (BSc Math Physics student at University of Waterloo)
468. Katie Z (High school student in Toronto)
469. Ethan Li (PhD student at Stanford University)
470. Brianna Ilancheran
471. Sabrina Schauss

472. Julia S. (PhD student at Uni Geneva)
473. Mia Souda Bovill (Assistant Professor, Texas Christian University)
474. Mordecai-Mark Mac Low (Curator & Professor at the American Museum of Natural History)
475. Remy Fung
476. Dierl (Maui Islanders)
477. Waika Lacerdo
478. Jacob White (Postdoc at Konkoly Observatory)
479. Keith Tirimba (PhD student at University of Florida)
480. Jacqueline Campbell (PhD Student, UCL)
481. Kristhell Marisol López (PhD student at SRON Netherlands Institute for Space Research, Radboud Universiteit Nijmegen)
482. Erin Flowers (PhD student at Princeton University)
483. Waika Lacerdo
484. Jacob White (Postdoc at Konkoly Observatory)
485. Keith Tirimba (PhD student at University of Florida)
486. Jacqueline Campbell (PhD student, UCL)
487. Kimberly Bott (Postdoc Researcher at University of Washington, UH Hilo Alumna)
488. Kristhell Marisol López (PhD student at SRON Netherlands Institute for Space Research; Radboud Universiteit Nijmegen)
489. Patryk Pjanka (PhD student at Princeton University)
490. Krystal Wong
491. Wendy Williams (Postdoc at Leiden Observatory, The Netherlands)
492. Tricia Sullivan (PhD student at Astrophysics Research Institute (Liverpool))
493. Deanna C. Hooper (PhD student at RWTH Aachen University)
494. Lia Corrales (University of Michigan, LSA Collegiate Fellow)
495. Keolamaikalani Ahina
496. David L. Clements (Faculty at Imperial College London)
497. John Weaver (PhD student at the Cosmic Dawn Center, University of Copenhagen)
498. Ilsa Cooke (Postdoctoral researcher at Université de Rennes 1)
499. Dr. Harriet Brown (Science and Technology Facilities Council)
500. Clarice Kim
501. Peter Laursenn (Postdoc at University of Oslo; Cosmic Dawn Center, University of Copenhagen)
502. Andrea Zonca (Staff Scientist at University of California, San Diego)
503. Joshua Tan (Assistant Prof. At City University of New York; Research Affiliate at American Museum of Natural History)
504. Shruti Badole (PhD student at University of Manchester)
505. Hamish Hay (PhD student at the University of Arizona)
506. Hichem (Student at University of Waterloo)
507. Stephen Herald
508. Peter Malonis (PhD candidate at University of Chicago)
509. Petra Duff (Undergraduate student at the University of Waterloo)

510. leanne lukela (i am kanaka)
511. Jessica Thorne (Graduate student at International Centre for Radio Astronomy Research, University of Western Australia)
512. Jordan Dancyger
513. Silvia Martínez-Núñez (PostDoc at Physics Institute of Cantabria (IFCA), Spain)
514. Urmila Chadayammuri (PhD student at Yale University)
515. James Brokaw (Undergraduate Illinois State University, Counselor Adler Planetarium)
516. Brianna Bukowski (High school student at Naperville Central High School, Adler Planetarium)
517. Elisabeth Mills (Assistant Professor, University of Kansas)
518. Alex Wise (PhD student at University of Delaware)
519. Meagan Lang (Research scientist at UIUC)
520. Dominic Bordelon (Librarian at European Southern Observatory)
521. Lauren Chambers (Analyst at STScl)
522. Erik Monson (PhD student at the University of Arkansas)
523. Warren M. Porter (W. Porter Technical LLC, Institute of Electrical & Electronics Engineers, American Association of Physicsts in Medicine)
524. Margaret Lee (Student at University of Tennessee, Knoxville; Intern at Statewide Organizing for Community Empowerment (SOCM); DSA member)
525. Kate Napier (PhD student at the University of Michigan)
526. Roy Kilgard (Associate Professor of the Practice, Wesleyan University)
527. Zachary Weaver (PhD student at Boston University)
528. Spencer Scott (PhD student at the University of Arizona)
529. Timothy Van REeth (Postdoctoral researcher at KU Leuven (Belgium))
530. John C. Martin (Associate Professor of Astronomy-Physics, University of Illinois Springfield)
531. Andrew Szentgyorgyi (Associate Director, CfA)
532. Gabriella Gonzalez (Undergrad at UT Austin)
533. Brianna Hull BSc, BA (Astro/Optics Research Masters student at NUI Galway)
534. Michael Ross (PhD candidate at University of Washington; LIGO Scientific Collaboration)
535. Benjamin K Tippett (Instructor, College of the Rockies)
536. Emily Kuhn (PhD student at Yale University)
537. Tomas Ahumada (PhD student at University of Maryland)
538. Samantha Hoffman (STScl)
539. Luna Zagorac (PhD student at Yale University)
540. Pamela Hanratty (Indiana University Bloomington)
541. Allyssa Riley (STScl)
542. Genevieve Schroeder (PhD student at Northwestern University)
543. Rafael Palomino (Institute for Scientist and Engineer Educators)
544. Michael Bueno (PhD student at Northwestern University, Center for Interdisciplinary Exploration and Research in Astrophysics)

545. Mary Lou Finley (Co-Chair of the San Diego County Central Committee of the Peace and Freedom Party of California)
546. Norma-Jean chock (Kanaka Maoli)
547. Emily Garhart (MS, Arizona State University; NSF Graduate Research Fellow)
548. Sanah Bhimani (PhD student at Yale University)
549. George Iskander (Undergraduate student at Yale University)
550. Nick Krefting (MS, Astrophysics from Tufts University)
551. Kat Milligan-Myhre (Assistant Professor, University of Alaska Anchorage)
552. Paul Regensburger (PhD student at University of Oregon)
553. Allison Lattin
554. Jillian Scudder (Assistant Professor at Oberlin College)
555. Robert Adams (Pacific peoples)
556. Selma Kettwich (University of Puget Sound)
557. Levi Schult (Undergraduate Astrophysics major at the University of Virginia)
558. Donald Kettwich, MD (MD, grad of University of Chicago)
559. Jason Poh (PhD student, University of Chicago)
560. Anna Nalani Ezzy (Undergraduate at New York University)
561. Mark Cook
562. Jordon Markovich
563. Adric Riedel (STScl)
564. Matthew Maclay (Research & Instrument Analyst at Space Telescope Science Institute)
565. Robert Bickley (Recent graduate, University of Connecticut)
566. Matthew Wahl (Night operator)
567. Karen Holmberg (Visiting Asst Professor of Environmental Science at New York University)
568. Sarah Parker (PhD student at University of Missouri)
569. Zafar Rustamkulov (Incoming PhD student at Johns Hopkins)
570. Sarah Ballard (Assistant Professor of Astronomy, University of Florida)
571. Maile Harris (Undergraduate at Yale University)
572. Sabrina Tecklenburg (PhD student at Stanford University)
573. Marissa Yonamine
574. Matthew S. Tiscareno (Senior Research Scientist at the SETI institute)
575. Cynthia M. Fadem (Associate Professor of Geology at Earlham College)
576. K Allen F (Master's Student at NYU; Brown University)
577. Noah Weaverdyck (PhD student at University of Michigan)
578. Liza Hafner (Undergraduate in Earth Systems at Stanford University)
579. Zoe Faes (Undergraduate student at the University of Manchester)
580. Jhett Bordwell (PhD student at University of Colorado Boulder)
581. Alexander Watkins-Goodman (Undergraduate student at Columbia University)
582. Justin Brienza (Assistant Professor at Wilfrid Laurier University)
583. Jennifer Sobeck (University of Washington, Senior Research Scientist)
584. Leslie Heam (Retired; Member Institute of Physics (UK))

585. Prof. Robert G. Roosen, PhD (Owner/Director Rainbow Observatory; IAU Life Member)
586. Nicole Arulanantham (PhD student at University of Colorado Boulder)
587. Alex Reda (PhD student at Yale)
588. Nuria Casasayas-Barris (PhD student)
589. Miles Currie (PhD student at University of Washington)
590. Debra Fischer (Professor of Astronomy, Yale University)
591. Shirin Zaidi (Student at Penn State University)
592. Daniel Heimsoth (Astrophysics Undergraduate at Yale University; Harvard-Smithsonian CfA)
593. Tonima Tasnim Ananna (Yale University)
594. Nathaniel Kerman (Student at Yale University; University of Chile, Santiago)
595. Uddipan Banik (PhD student at Yale University)
596. Héctor G. Arce (Associate Professor at Yale University)
597. David Zegeye (PhD student at the University of Chicago)
598. Stephanie Spear (B.S. in Astrophysics from Yale University)
599. James Haney (Eastern Band Cherokee Native)
600. TatianaS (WHNP)
601. Alyssa Cassity (Undergraduate student at Smith College, Summer Research FELLOW at Yale University Astronomy)
602. Iva Fatbut (University of Arizona (student))
603. Janosz Dewberry (PhD student at the University of Cambridge)
604. Puanani Rogers (Ho`okips Network- Kauai; Kia`i o Mauna a Wakea)
605. Carl Fields (PhD student at Michigan State University)
606. Kaustav Mitra (PhD student at Yale University)
607. Sabrina Outmani (PhD student at University of Warwick, Department of Physics)
608. Morgan Saidel (Undergraduate physics major at the University of New Hampshire)
609. Ryan Cutter (PhD student [University of Warwick])
610. Moshe Gai (University of Connecticut)
611. Tracy Hodge (Berea College; American Astronomical Society, Astronomical Society of the Pacific)
612. Matthew Green (Postdoc at University of Warwick)
613. Jake Clark (PhD Candidate at the University of Southern Queensland)
614. Lamiya Mowla (PhD student at Yale University)
615. Nathaniel Hendler (PhD student at University of Arizona)
616. Mary Chessey (Postdoc at University of Maryland College Park)
617. Antígona Segura (Researcher at Universidad Nacional Autónoma de México)
618. Massimo Marengo (Professor, Iowa State University)
619. Alexander Peterson, MSc.
620. Peter Gmelch (Masters candidate at NYU)
621. Rebecca Levy (PhD candidate at the University of Maryland)
622. Kimberly Robins (Undergraduate student at Johns Hopkins University)
623. Johnny Dorigo Jones (Astronomy Undergraduate at University of Michigan)

624. Joanne Dawson (Senior Lecturer at Macquarie University)
625. Emmett Collins
626. Luca Zappacosta (Italian National Institute for Astrophysics - Astronomical Observatory of Rome)
627. Naim Goksel Karacayli (PhD student at Yale University)
628. Te Whewheia (Kaitiaki @ Tuhoe Nation)
629. Rob Cockcroft (Assistant Professor, Western University)
630. Marshall C. Johnson (Columbus Prize Postdoctoral Fellow at the Ohio State University)
631. Gabriel Mininberg (Undergraduate astronomy student (Yale University))
632. Jessica Ennis (Physics Instructor at Augsburg University)
633. Louise Edwards (Asst. Prof at Cal Poly, SLO)
634. Ruth Hill (Undergraduate at University College London)
635. Victor Papyshv (Undergraduate research student at the University of Louisville)
636. Joanna Young (BSc Astronomy University of British Columbia; PhD candidate Geophysics University of Alaska Fairbanks)
637. Miranda Mosley (Undergraduate Researcher, Bachelor's of Arts in Social Welfare, UC Berkeley)
638. Joseph Chamberlain (Undergraduate at University of Arizona)
639. Danielle D'Angelo (University of Arizona)
640. Erica Hammerstein (PhD student at University of Maryland)
641. Mayura Balakrishnan (Post-bacc researcher at University of Michigan; B.S. in physics and B.S. in astronomy from UM)
642. Gabriella Guillen (BA student, Cal Poly San Luis Obispo)
643. Anthony Sanchez (B.S Physics from Humboldt State)
644. Martha Noyes
645. Vanessa Hillman
646. Andrew San Miguel (US Navy)
647. Brenda Carlyle
648. Joe O'Rourke (SESE Exploration Postdoc, ASU)
649. Anh Bui (Student of SFSU)
650. Tom Peterken (PhD student at University of Nottingham)
651. Marjane Aalam (University of Geneva, Switzerland)
652. Manuel J. Perez III (Masters student at Wesleyan University)
653. Radhika Trivedi (Undergrad at Amity University)
654. Barry Rice (Professor of Astronomy, Sierra College, California)
655. Nikaïa Smith (Postdoc at Institute Pasteur, Paris, France)
656. Hao-Tung Chuang (Undergraduate at Oregon State University)
657. Chalynette Martinez-Martinez (Chemistry graduate of The Johns Hopkins University; Supporter of Indigenous Rights)
658. Jeffrey Shueler (PhD student at University of Hawaii-Dept of Physics and Astronomy)
659. Karel Green (PhD student at the University of Nottingham; www.poc2.co.uk)
660. Dipa Desai (MS/PhD paleoclimate student at Nature.com)

661. AkheraWilliams (Subscriber of Nature.com)
662. Paula davila
663. Tijs van Room (Universiteit van Amsterdam)
664. Laisvydas Pikcingis
665. Jackie Villadsen (Assistant Professor of Physics at St. Mary's College of Maryland; Alumni of Caltech astrophysics graduate program)
666. Chris Gosling (Saranac Lake High School)
667. Kerry Klemmer (PhD student at Princeton University)
668. Marla Geha (Professor at Yale University)
669. Claire Gordon
670. joseph duenas
671. Amani Garvin (Research Scientist at Columbia University; Ball Aerospace)
672. John-Res Saufoi Moors (Son of Polynesia)
673. Hannah Jang-Condell (Associate Professor at University of Wyoming)
674. Elena Long (Asst. Prof., University of New Hampshire)
675. Kristen Larson (Associate Professor of Physics & Astronomy at Western Washington University)
676. Kamira Barron (University of Calgary, UCLA)
677. Andi Hanako Rooney (M.Ed student at Harvard University)
678. Arani Roy (Research Assistant Professor, University of Minnesota)
679. Emma Mannfors (Master's student in astronomy, University of Helsinki)
680. Ellen Marius (Undergrad Environmental Sustainability Student at Barnard College, Columbia University)
681. Andrew Saydjiari (PhD student at Harvard University)
682. Karen Knierman (Arizona State University)
683. David Schiminovich (Columbia University)
684. Samantha Hoskins (Student at University of Florida)
685. Jacqueline van Gorkom (Professor at Columbia University)
686. Adam Rubinstein (PhD student at University of Rochester)
687. Dr. Moses P. Milazzo (Research Scientist, Owner at Other Orb, LLC)
688. Daniel S. Helman, PhD (Lecturer & Researcher at Ton Duc Thang University; Executive Director at Winkle Institute: A Group of Independent Scientists)
689. J. Andrew Casey-Clyde (Incoming PhD student at the University of Connecticut)
690. Crystal Gnilka (PhD student at Georgia State University)
691. Julie Aponte
692. Jennifer Bundock
693. Eli Baumann (Occupational Medicine Research Coordinator at HealthPartners)
694. Stephen Williams
695. Kaushik Rao (PhD student at Northwestern University; LIGO)
696. Florence Julian
697. Carlie Miller (STEM teacher, OHPS)
698. Arthur Eigenbrot (National Solar Observatory)
699. Bob Douglas (Retired computer engineer)

700. Adrian Stingaciu (MS Applied Electromagnetics from UNM)
701. Bianca Payan (Undergraduate at the University of Arizona)
702. Shaina Rogstad (PhD candidate at UMass Amherst)
703. John Wu (PhD student at Rutgers University)
704. Donovan Domingue (Professor at Georgia College)
705. M. Virginia McSwain (Associate Professor at LeHigh University)
706. Brian Manley (Aspiring Young Astrophysicist)
707. Andrew Bricker (High School Earth/Space Science teacher, Lawrence High School in Lawrence, KS)
708. Robert Minchin (Sr Scientist, USRA, acting in a personal capacity)
709. Zahra Khan (Space Systems Engineer)
710. Karen Hand
711. Sai Krishanth Pulikesi Mannan (Undergraduate student at the University of Arizona)
712. Erin Lippitt (Undergraduate student at Yale University)
713. Tiffany Chapman (Maui resident)
714. Katiya Fosdick (Undergraduate Student at UW-Madison)
715. Jessica Milne (MPH, University of Michigan alum)
716. Rose Borden (MS student at University of Tennessee Knoxville)
717. Bri Aldersea (student at RMIT university)
718. Catherine Cranmer (Astrophysics undergraduate at Arizona State University; DESI intern at Kitt Peak National Observatory)
719. Karina Chiu (Undergrad student at California Polytechnic University of San Luis Obispo)
720. Noelani Josselin
721. Jaime E. Forero-Romero (Associate professor, Los Andes University)
722. Amruta Jaodand
723. K.C. Salyer (Associate Professor of Practice, Anthropology Department and Director of the Human Rights Program; Barnard College, Columbia University)
724. Manya Sahni (PhD student at Kings College London)
725. Hans Zekl (Freelance Science writer)
726. Joseph Kawika Delfin
727. Mayrose Porter (Medical Student)
728. Sara Rezvi (PhD student at The University of Illinois at Chicago; The University of Chicago, AB'06, Mathematics, '08 Masters of Arts in Teaching)
729. Abby Mintz (Undergraduate at Yale University)
730. Mariah Yoder
731. Cecilia Molina (Alumni from San Francisco State University, NAC fellow at STScI)
732. Teemu Willamo (PhD student at University of Helsinki)
733. William Balmer (Undergraduate Researcher at Amherst College)
734. Arther Adams (PhD student at Yale University)
735. Galen Schwartzberg (MS student at Bowling Green State University, Ohio)
736. Terry Bridges (Okanagan College)
737. Carol COZZI schmarr (Ocean Rider seahorse farm; Seahorse HAWAII foundation)

738. Jack Warfield (Undergraduate student at The Ohio State University)
739. Matthew Whitehouse (Observatory Manager, South Carolina State Museum)
740. Dr. Sara Mazrouei (University of Western Ontario; Space Matters)
741. Elise Huffer
742. Matthew Whitehouse (Observatory Manager, South Carolina State Museum)
743. Malia DeFay-Brown)
744. Savannah Garmon (Osaka Prefecture University; University of Tokyo)
745. Marci Carpenter
746. Taran Chun
747. Jarred Gershon Green (Researcher at the Italian National Institute of Astrophysics
INAF)
748. Jonathan Lewis (PhD student at Freie Universität Berlin)
749. Calley O'Neill
750. Phyllis Steinhauser (Alumnus, Roosevelt, University, Chicago)
751. Faatimah Solomon (Stanford undergrad)
752. Jennifer Pearce (Associate Professor, Roger Williams University)
753. Timothy LaRock (PhD student at Northeastern University; Member of Science for the
People)
754. Laura Chomiuk (Assistant Professor at Michigan State)
755. Dhruva Ganapathy (PhD student at Massachusetts Institute of Technology)
756. Joseph Calvey (Assistant Physicist, Argonne National Lab)
757. Larry Aseo
758. Liza Sazonova (PhD student at Johns Hopkins University)
759. Vicki Gibson
760. Madelein Lucey (PhD student at University of Texas)
761. Amani Mildred Garvin (Research scientist at Columbia University; NuSTAR Galactic
Survey Team)
762. Kirill Tchernyshyov (PhD student at Johns Hopkins University)
763. Carlyn Zniewski (Marathon, Texas amateur)
764. Heather Eagle
765. Courtney Kong (Undergraduate Student at Kapiolani Community College; Hawaii
Resident)
766. Caroline Huang (PhD student at Johns Hopkins University)
767. Nell Byler (Postdoc at the Australian National University)
768. Taylor Hoyt (PhD student at UChicago)
769. Anurag Deshpande (PhD student at UCL)
770. James Lowenthal (Professor at Smith College)
771. Bernice Walker
772. Heather Garland (Rutgers University)
773. Christopher Manser (Research Fellow at University of Warwick)
774. Elena Cukanovaite (PhD student at University of Warwick)
775. Brianna Smart (Postdoc Research Associate at the University of Hertfordshire)
776. Dr. Evan Tyler (Researcher at University of Minnesota)

777. Justine Grabiec (M.S. student at University of North Carolina at Chapel Hill)
778. Carrie Holt (PhD student at University of Maryland)
779. Lydia Liu (Cornell University; UC Berkeley)
780. Patrick von Morgen (Postdoc at MSKCC)
781. Christine Benoit (Administrator at Center for Astrophysics | Harvard & Smithsonian; Harvard College Observatory)
782. Carrie Fillion (PhD student at Johns Hopkins)
783. Jillian Bellovary (Assistant Professor, CUNY - Queensborough Community College; American Museum of Natural History)
784. Caroline Huang (PhD student at Johns Hopkins University)
785. Aylin Garcia Soto (PhD student at Dartmouth)
786. Roberta Humphreys (University of Minnesota)
787. Michael Busch (PhD student at Johns Hopkins University; NSF Graduate Fellow)
788. Brian O'Neill (PhD student at University of Minnesota)
789. Kelsey Dawson
790. Keira Brooks
791. Ian Ramdeen
792. Jae Calanog (Assistant Professor, San Diego Miramar College)
793. David Hofmann (Postdoc at Emory University; Science for the People)
794. Coyne Gibson (The University of Texas - McDonald Observatory)
795. Nicole Gugliucci (Assistant Professor at Saint Anselm College)
796. W. D'Arcy Kenworthy (PhD student at Johns Hopkins University)
797. Sanjana Curtis (PhD student at North Carolina State University)
798. Catherine Lovekin (Associate Professor, Mount Allison University)
799. Andy Rundquist (Hamline University)
800. Jenna Lyons (2019 Graduate of Saint Anselm College)
801. Charles Robinson (Ohana)
802. Johnny Nguyen (American Physical Therapy Association)
803. Maya Pace
804. Wilson Liu (Assistant Scientist at NOAO)
805. J.McKim Malville (Emeritus Professor, Astrophysical and Planetary Sciences, University of Colorado)
806. Jay Strader (Associate Professor at Michigan State University)
807. Edward Montiel (Associate Pipeline Scientist, SOFIA/USRA)
808. Kari-Lyn Sakuma (Assistant Professor at Oregon State University)
809. James Davenport (University of Washington)
810. Kate Sandelin (Senior Instructor at Western Washington University)
811. Renata Koontz (Graduate student at Yale University)
812. Sam McKagan (American Association of Physics Teachers; Director, PhysPort)
813. Inger Kanoe Højfeldt (Kumu Hula)
814. Maya Monroe (PhD student at Johns Hopkins University)
815. Kathryn Neugent (PhD student at University of Washington)
816. Ali Bramson (Postdoctoral Research Associate at University of Arizona)

817. Marsha Shaiman
818. Orion Koleva (Undergraduate at Miami University)
819. Andrew Chael (Visiting Postdoctoral Fellow at Center for Astrophysics | Harvard & Smithsonian)
820. Tim McKay (Professor of Physics, Astronomy, & Education, University of Michigan)
821. Maryann Rose Broyles
822. Patrick Griffith (B.S. Biology at Drexel University)
823. Megan Marshall Smith (PhD student at the University of Maryland)
824. Abigail Crites (Postdoc at Caltech)
825. Maya Navabi (Undergraduate student at Rensselaer Polytechnic Institute)
826. Cesar Arevalo (Undergraduate at Stanford University)
827. Jennifer Stafford (Incoming PhD student at University of Wisconsin Madison)
828. Joel C. Zinn (Postdoc, University of New South Wales)
829. Carolina Nunez (PhD student at Johns Hopkins University)
830. Caroline Roberts
831. Casey Melton
832. Matt Hodel (PhD student at McGill University)
833. Laura Prichard (Postdoc at Space Telescope Science Institute)
834. Rozlyn Reiner, M.A. (Astronomy Resource Educator, Kauai Educational Association for Science & Astronomy (KEASA); State of Hawaii Dept. of Education)
835. Saaya Sugiyama-Spearman (Astrophysics Undergraduate at Yale University)
836. Susana Pedrosa (IAFE Institute for Astronomy and Space Physics; CONICET - OBA; UAM Universidad Autonoma de Madrid)
837. Jennifer Medina (Analyst at STScI)
838. Paul M. Amy (PhD student at Rensselaer Polytechnic Institute)
839. Beth Semel (PhD student, MIT)
840. Joshua Oppor (PhD student at University of Wisconsin - Madison)
841. Alejandro López (Researcher in cultural astronomy, CONICET-UBA, Argentina; Astronomer and Anthropologist)
842. Benedikt Diemer (Postdoc at Harvard)
843. Michael P. Oman-Reagan (Vanier Scholar, Anthropologist at Memorial University; JustSpace Alliance Board)
844. Rebecca Nevin (Postdoctoral researcher at the Center for Astrophysics)
845. Laura Olivera Nieto (MSc student at the University of Innsbruck; Astromundus)
846. Douglas Branton (Analyst at Space Telescope Science Institute)
847. William Webber)
848. James Negus (PhD student at CU Boulder)
849. Kerry Hensley (PhD student at Boston University)
850. Priyanka Shanmugasundaram (MS student at University of Michigan School of Information)
851. Elisabeth Newton (Assistant Professor, Dartmouth College)
852. Heidi McCann (University of Colorado Boulder; Citizen of the Yavapai-Apache Nation)

853. Maria Gonzalez (PhD student at Virginia Tech)
854. Adrianna Garriga-López, Ph.D. (Kalamazoo College)
855. Sana Saboowala (PhD student at University of Illinois Urbana-Champaign)
856. Daniel Ziskin, PhD (NCAR)
857. Victoria DiTomasso (PhD student at Harvard)
858. Kayleigh Kresse (Cancer researcher at Oregon Health & Science University)
859. Angel A Garcia Jr (Assistant Professor of Geology at James Madison University;
Rising Voices)
860. J. Sebastian Pineda (Research Scientist; CU Boulder LASP)
861. Akaxia Cruz (PhD student at University of Washington)
862. Carrie Nugent (Olin College)
863. Janene Yazzie
864. Dennis Tilipman (PhD student at CU Boulder)
865. Carla Arce (PhD candidate at Universidad de Chile)
866. Wolfgang Dzieran (Volunteer at Volkssternwarte Paderborn, Schloß Neuhaus,
Germany)
867. Julie Lefore
868. Chelsea Robinson (Enspiral Foundation)
869. Jeffrey Schueler (PhD student Dept. of Physics and Astronomy University of Hawaii)
870. Shelley Choy (Certified Iyengar Yoga Teacher at Iyengar Yoga Honolulu)
871. Julie Maldonado (Associate Director, Livelihoods Knowledge Exchange Network;
University of California, Santa Barbara)
872. Gulden Othman (PhD candidate at University of North Carolina- Chapel Hill)
873. Zoheyr Doctor (PhD student at UChicago)
874. Arika Egan (PhD student at University of Colorado Boulder)
875. Patti Choy
876. Emily Marquez (PhD, Staff Scientist at Pesticide Action Network; Academy of the
Hawaiian Arts, Oakland, CA)
877. John Witeck (HCC lecturer, OESM)
878. Joanne Marras Tate (PhD student at University of Colorado)
879. Amy Glazier (PhD student at University of North Carolina at Chapel Hill; NASA NC
Space Grant Graduate Research Fellow)
880. Roanne Nip (Ukulele instructor with Kamana Sr. Center in Hilo)
881. Tri Nguyen (PhD student at MIT)
882. Diane Choy Fujimura (Save Ala Moana Beach Park Hui)
883. Lorenzo A. Williams
884. Mark Schacht (former PhD student at University of Illinois; Bd Mbr Hawaii Wild Reefs
Non-Profit)
885. Leihulu Irvine
886. Samantha Scibelli (PhD student at University of Arizona)
887. Hele Nahoopii (CEO, Indigo Blue Hawaii; The Evergreen State College)
888. Kimmy Wu (Postdoc at KICP/UChicago)
889. Simyat Thu (PhD candidate of English at University of Washington, Seattle)

890. S. G. Sterrett (Professor at Wichita State University; Fellow of AAAS; Full Member Sigma Xi)
891. Sarah Balster (Engineering Geologist State of California)
892. Mike Walmsley (PhD student at University of Oxford)
893. Taylor Alexandra Hutchinson (PhD student at Texas A&M University; NSF Graduate Fellow, TAMU Diversity Fellow)
894. Malcolm Q. Orrall (B.S., Physics, UCLA, son of Astronomer Frank Q. Orrall, Ph.D., Harvard, who was one of the two professors granted instant tenure to found the Institute for Astronomy (IfA) at UH)
895. Holly Shelton (PhD student at University of Washington)
896. Susan Heimann (Graduate of the University of Texas at Austin)
897. JC Holbrook (Associate Professor, Physics & Astronomy, University of the Western Cape; Hawaiian born African American Astrophysicist)
898. Sally Rappeport (Concerned Citizen)
899. Mimi Filova (Undergraduate at New York University Abu Dhabi)
900. Carla Dhillon (Ph.D., P.E.)
901. Sheena Skinner (Undergraduate at CU Boulder)
902. William O'Leary (University of Texas)
903. Camille Avestruz (KICP/EFI Postdoctoral Fellow at the University of Chicago)
904. Elizabeth McLaren
905. Karen Johnstone
906. Rebecca Holmes (Undergraduate student at the University of Colorado Boulder)
907. Heidi Schutz (Associate Professor of Biology at Pacific Lutheran University)
908. Bob Rabin (Instructor, Ilisagvik College; Research Meteorologist, honorary fellow, UW-Madison)
909. Aleksey Generozov (Postdoc at JILA/CU Boulder)
910. Kathryn Boyd (Research Faculty at University of Colorado)
911. Jonathan Laverty (Undergraduate at CU Boulder)
912. Kara Garcia (Natural Resources graduate)
913. Deanna Erickson (Education Coordinator, University of Wisconsin Madison Division of Extension; Duluth for Clean Water)
914. Rebecca Holmes (Undergraduate at University of Colorado Boulder)
915. Denise woo
916. Uche Okwo (Undergrad student at MIT)
917. Amy Parent (PhD student at University of Abertay Dundee)
918. Andrew Graus (Postdoc at UT Austin)
919. Robel Geda (Software Engineer at STScl)
920. Alina Li (MPH student at Brown University School of Public Health)
921. Wynn Jacobson-Galan (Incoming G1 at Northwestern University and NSF Graduate Fellow)
922. Ahmed Al Awadhi (PhD student at University of Washington, UW Language and Rhetoric Colloquium)
923. Macy Huston (Grad student at Penn State)

924. Benjamin Keller (Physics Undergraduate Student Johns Hopkins University)
925. Anna Veolker (The Ohio State University)
926. Clara Sousa-Silva (Post-doc at MIT)
927. Ramy Kim (President, Counter Culture Labs)
928. Tom Jara (Undergraduate at UC Davis; Counter Culture Labs)
929. Cebe Loomis (UCSC, MFA Social Documentation)
930. Sandra D. Nair (Undergraduate student at Mathematics and physics departments)
931. Dhanesh Krishnarao (Ph.D. student at University of Wisconsin-Madison)
932. Andrea Ahumada (Prof. at Observatorio Astronomico de Cordoba, Argentina)
933. Charlie Conroy (Professor, Harvard University)
934. Carolyn Kopecky
935. Aaron Lopez (PhD student at UW-Madison)
936. Jonathan Ranallo (Undergraduate astrophysics student at the University of Victoria)
937. Andrea Delgado (Ph.D., University of Washington)
938. Andrew Nine (PhD student at the University of Wisconsin-Madison)
939. Miranda Apfel (PhD student at UCSC)
940. Shane Loeffler (University of Minnesota; Science for the People)
941. Bethlee M Lindor (Graduate student at the University of Washington)
942. Joseph Kekuhaupio Wells
943. Kira Simpson (Research Technologist at Penn State University)
944. Skylar Niehaus (University of Alberta Alumna)
945. Kalena K. Blakemore (UHHILO Heritage Management MA alumni & Land Management Specialist)
946. Nicholas Mehrle (PhD student at MIT)
947. John Staunton (Undergraduate at Columbia University)