# 1AC

#### 1. Private space activity is expanding. 2022 is the crucial year to demonstrate profitability.

Kramer, 22

(Miriam Kramer is the space reporter for Axios. She is the author of the weekly Axios Space newsletter and covers the science and business of space. “Private space companies’ 2022 promises to keep.” Axios. January 4, 2022. https://www.axios.com/private-human-spaceflight-2022-8ec6082a-e3ae-4d6b-8073-3f8af3e7e2a5.html)

The private human spaceflight industry delivered on long-held promises in 2021, but 2022 is the year where it will need to prove itself to the public. Why it matters: The space industry is predicted to be worth more than $1 trillion within the next 10 years. But for that to happen, companies will need to turn the extraordinary feats of the last year into routine operations. What's happening: Last year, Blue Origin and Virgin Galactic both launched their founders — Jeff Bezos and Richard Branson respectively — to space for the first time. Blue Origin followed that up with two more suborbital human flights in 2021. Those missions marked the culmination of decades of work for the two companies and delivered on a promise of sending more non-professionals to space. SpaceX also consistently launched crewed missions to the International Space Station for NASA, a major customer that will influence the continued growth of the company, and had a huge success with four non-professionals flying to orbit without a pro-astronaut onboard on the Inspiration4 mission. What to watch: Now, those companies are trying to demonstrate they can consistently deliver these services — and turn a profit from them. That means flying more. Blue Origin, Virgin Galactic and SpaceX are expected by space watchers to fly people to space consistently and safely this year. That will be key to determining whether the successes of the last year are one-offs or if they can get into "some sort of rhythm and make some money," Carissa Christensen, founder and CEO of BryceTech, told Axios. SpaceX is planning to launch the Axiom Mission-1 mission to the International Space Station early in 2022, which will act as a followup to the Inspiration4 mission and could be an indicator of the market for more amateur orbital flights. It's hard to gauge whether private companies like Blue Origin are profitable — because their finances aren't open to the public — but routinely launching, which is expensive, can act as a proxy for it, Christensen said. Yes, but: Transforming these missions into routine services won't be easy. It will require companies to increase launch cadence, which is challenging because they're working with relatively newly-developed technology and within complicated regulatory frameworks. The big picture: The public demand for these types of services could also become more clear this year. Studies indicate there is "substantial demand" for suborbital spaceflight, Christensen says. "You have a larger pool of people that can afford it now." According to a May 2021 note sent to investors by analysts Ken Herbert and Austin Moeller, of Canaccord Genuity, the suborbital tourism market could reach $8 billion by 2030 with 1 million potential customers. Between the lines: Demonstrating they can turn a profit will be important for the companies working to make consistent, private human spaceflight a reality, but it's likely a small portion of the revenue for the space industry overall. However, human spaceflight will be one of the most important public-facing elements of the overall industry. Major failures and successes will shift the way the public sees the industry, adding to its support or detracting from it. The bottom line: Last year, the private spaceflight industry showed what it can do, but this year, these companies will need to capitalize on it.

#### 2. Private space enterprise requiresmassive inequality—it’s viewed as a spatial fix that allows infinite expansion of state backed colonialism.

Penny, 20

(Eleanor Penny, “Billionaires Want to Be the Gatekeepers of the Solar System.” In These Times, 17 Dec. 2020, <https://inthesetimes.com/article/space-privatization-future-technology-silicon-valley-elon-musk-jeff-bezos>. Eleanor Penny is a writer, poet and essayist based in London. Her non-fiction writing has appeared in outlets including The New Statesman, The Independent, In These Times, Verso Books and The London Review of Books. She is a regular contributor to Novara Media. She has appeared as a political & cultural commentator on national and international outlets including BBC Newsnight, talkRadio, LBC, BBC Front Row and Al Jazeera. She has appeared on talks and panels at the British Library and the Institute of Contemporary Arts.)

The eye-watering upfront costs of these exploratory, high-risk, high-reward endeavors can be absorbed by Silicon Valley venture capitalists and the personal fortunes of its aristocracy. A concentration of capital stands ready to risk big money to secure a stake in future markets (which will double down on its power in existing ones). The point is to ensure a slice of the territory everyone else will be clamoring for. This form of ​“creative destruction”—an idea developed by economist Joseph Schumpeter, understood in neoliberalism to describe the boom-bust cycle of innovation — is often packaged in the mythology of moonshot genius that drives human progress. But Schumpeter’s theory has a less discussed underbelly: Such creative destruction is usually twinned with market capture. As competitors are tossed onto the scrap heap of history by their own sudden irrelevance, oligarchies and monopolies flourish. The riches of the asteroid belt make earthly mining look positively parochial. The problem is that a sudden, vast supply of (formerly) precious metals would make market prices plummet. Journalist Aaron Bastani, author of Fully Automated Luxury Communism, notes that satellite-delivered digital information has the potential to replace our earthbound Internet networks with ​“space-based global Internet” — the way music streaming has replaced CDs and CDs replaced cassettes and vinyl — or to at least render them much cheaper (through, for example, open-access 3D printing). SpaceX and Blue Origin surely share a goal to make space transport cheaper. The question is, for whom? These ventures train their sights on infinite excess, with dwindling marginal costs as the supply of key materials and digital resources expands. This paradigm is great for those interested in the advancement of human civilization, but not so much for a grinning billionaire’s fixation on the bottom line. At first glance, expanding industry beyond Earth sounds like a pragmatic fix to the earth-shatteringly simple dilemma faced by capitalism: that it must grow to survive, but the planet it grows upon is finite. But to maintain profit margins in conditions of plenty (a demand of industry), legal and political fixes are required. If you exclusively own mining rights to asteroids rich in platinum — and precious little platinum is left on Earth — you can charge whatever you like for platinum. The diamond industry perfected this technique decades ago. (Elon Musk’s family fortune comes partially from a Zambian emerald mine.) Hence, the focus of the new space race is not on the production of goods or their most efficient sourcing, but on ownership of land and transport networks. In this latest phase of capitalism, as national growth slows, productive industries dwindle and wealth concentrates in fewer hands. As economist Thomas Piketty has observed, this phase is accompanied by a pivot toward rent-seeking as a profit mechanism. In other words, the scramble for space is the scramble to own satellites and ​“starways,” gatekeep the riches of the solar system and charge rent on the moon. Against this backdrop, Space Force might seem retrograde, a warped nostalgia for a time when the space race was about petty terrestrial wars rather than Musk’s supposedly enlightened vision to colonize Mars. In reality, the two visions go hand in hand. Military might physically captures and secures territory, enforces the American political and legal apparatus and ensures business can function (even on the moon). The darlings of this new space age paint their vision as daring futurism, a wild-eyed libertarian dream of human elevation. But history repeats and the story is old. Like Bezos and Musk, Cecil Rhodes — mining magnate and premier villain of the British Empire — also succumbed to dreams of wealth in the night sky. ​“Expansion is everything,” Rhodes said. ​“I would annex the planets if I could.” Where technology opens up the yawning unknown of new territory glittering with potential profit, private enterprises hustle for dominance — backed by the military and legal capacities of earthbound nations. Colonialism in space is not some post-humanist utopia, but the age-old dominion of land barons and mining magnates, billionaires sloughing off the wreckage of one planet and setting out for the stars.

#### 5. Capitalism is not natural or inevitable; extending it to space is a political choice. Empirics prove it will be disastrous.

Penny, 20

(Eleanor Penny, “Billionaires Want to Be the Gatekeepers of the Solar System.” In These Times, 17 Dec. 2020, <https://inthesetimes.com/article/space-privatization-future-technology-silicon-valley-elon-musk-jeff-bezos>. Eleanor Penny is a writer, poet and essayist based in London. Her non-fiction writing has appeared in outlets including The New Statesman, The Independent, In These Times, Verso Books and The London Review of Books. She is a regular contributor to Novara Media. She has appeared as a political & cultural commentator on national and international outlets including BBC Newsnight, talkRadio, LBC, BBC Front Row and Al Jazeera. She has appeared on talks and panels at the British Library and the Institute of Contemporary Arts.)

Space is our birthright. ​“Americans should have the right to engage in commercial exploration, recovery and use of resources in outer space,” President Donald Trump wrote April 6, 2020, issuing the ​“Executive Order on Encouraging International Support for the Recovery and Use of Space Resources.” In the stroke of a pen, Trump planted the U.S. flag on ​“the Moon, Mars and other celestial bodies.” As Trump declared these space lands and resources open for business, you could hear the cheers — mostly from ​“moonshot” corporations that have clamored to sweep away the patchy, unregularized Cold War-era space law in favor of new, unregulated corporate plunder of the solar system. While the institution of private land ownership is now widely taken for granted, it was — like many so-called natural things — invented. Before the muddied, grueling transition from feudalism to capitalism, peasants in Britain and much of Western Europe depended on their right to farm, forage and harvest on common, community lands. The land was controlled by local lords, but it belonged (in a loose, de facto sense) to the communities living on it and dependent upon it. Eventually, common lands were ​“enclosed” and became the private property of aristocrats. This exclusive right to land use (to own and profit from land) was the contrivance that established the new economic order. No longer held in common, the planet’s resources were parceled off to strictly private hands. No longer could peasants scrape by, subsisting on the commons. Instead, they depended on the grace and favor of a wage. Life in feudal times was no bucolic idyll, but enclosure was synonymous with disaster, destitution and death for many people. This model was mirrored in the capture, theft and enclosure of colony lands, the people (and resources) of which fueled the early capitalist transition and later the industrial revolution. Capitalism must grow to persist, and as it grows it must transform ripe, unregularized commons into private fiefdoms — at home and afar. So it seems only ​“natural” to carve up the moon into stretches of valuable real estate, just like Manhattan and the metal mines in the Democratic Republic of Congo. After all, Earth’s resources dwindle by the day, and boundless resources beyond the stratosphere could be a backstop for planetary scarcity. Never mind that our crisis of resources is, in part, the result of this system of private ownership that rewards ruthless, short-term profiteering at the expense of the long-term survival of the natural commons. This future access to a new natural commons is now a stress test on governmental priorities. As Trump proclaimed, ​“Outer space is a legally and physically unique domain of human activity, and the United States does not view it as a global commons.” Trump’s executive order to ​“encourage international support for the public and private recovery and use of resources in outer space” heralds yet another public-private boondoggle, where nominally public institutions thrash out fresh boundaries of corporate activity. As an example, look no further than SpaceX’s Crew Dragon capsule, which successfully transported NASA astronauts Bob Behnken and Doug Hurley to the International Space Station on May 31, 2020. The NASA-SpaceX crossover branding leaves no room for misinterpretation: The next small steps for mankind will be giant leaps for corporate America. Elon Musk, who founded SpaceX in 2002, talks misty-eyed about a relatively near future when humanity will have risen out of the mud, setting its sights on colonizing Mars — with SpaceX transportation rocketing there. In 2020, Musk began launching a cavalcade of thousands of satellites into low-Earth orbit to form the Starlink satellite system. As of November 2020, nearly 900 satellites had been launched (42,000 are planned in total). This network will potentially seed an extraplanetary monopoly for key economic infrastructure, such as domestic internet access. Fellow billionaire escapist Jeff Bezos, Amazon CEO, has been romanced by the wealth among the stars as well, founding his own aerospace company, Blue Origin, back in 2000. ​“We are going to build a road to space,” Bezos said in 2019. ​“And then, amazing things will happen.” Bezos has invited us all to cosplay his daydreams with the Amazon-funded, interplanetary sci-fi thriller The Expanse, in which a roll call of stock anti-heroes (the rogue policeman, the war-beleaguered pilot, etc.) tumble through a far future when only wise plutocratic innovators can plumb interstellar riches and deliver the solar system from interstellar war. Microsoft, too, has its fingers in the intergalactic pie, launching Azure Orbital in September 2020 to enable satellite operators on its cloud computing platform, along with a SpaceX partnership the following month. According to Forbes, 2019 was a record year for private space investments, with ​“venture capitalists [investing] $5.8 billion in 178 commercial space startups worldwide.” As Earth’s billionaires burnish the power of new stratospheric tech, Trump launched Space Force, the first new branch of the U.S. military in more than seven decades. ​“Space is the world’s newest war-fighting domain,” Trump said. ​“Amid grave threats to our national security, American superiority in space is absolutely vital.” Space exploration has long been tied to military ambition. From its Cold War founding, NASA’s task was to advance the practical interests of the American state as it squared off against the Soviet behemoth. The new field of battle included space-guided missiles and satellite technology. Astronauts are still generally selected from the ranks of the military. Grumman (now better known as half of Northrop Grumman) made parts for both the NASA spacecraft that leapt into the great unknown and the military machines that waged war in Vietnam. As the shadow of nuclear war retreats in the bright light of a digital dawn, the mission of Space Force is to protect the economic and military infrastructure (communications and surveillance technology) seemingly threatened by rival global powers (namely, Russia and China) gearing up their own military space operations. The 1967 Outer Space Treaty, signed by the United States, the United Kingdom and the Soviet Union, attempted to guard against the militarization and the privatization of our shared stratosphere. The treaty limited governmental (and non-governmental) bodies from sending nuclear weapons into space and prohibited the annexation of the moon and temptingly mineral-rich asteroids. As the treaty outlined, any country could use and explore outer space but there could be no ​“appropriation” of astral territory. It was, at heart, a disarmament treaty — one whose ropey legalities were enforced by the now-defunct Cold War brinkmanship between its main two signatories. The treaty never foresaw the dizzying rise of private enterprise clamoring for a slice of the sky. Nor did it foresee the slow shelving of publicly funded U.S. space exploration (especially the manned variety) that would allow venture capitalists to stake their claim in a new space scramble.

**4. Risks of private space activity vastly outweigh- government space programs are regulated and equitable. Private space risks handing a megalomaniac their own death star.**

**Kaminska, 14**

(Izabella is an FT Alphaville reporter. <https://www.ft.com/content/02aac296-a920-11e3-bf0c-00144feab7de> 3-14)

For a long time the idea of commercial space was an eccentric billionaire’s pipe dream. A fanciful desire of those with a penchant for Isaac Asimov novels. **Not so any more**. Elon Musk’s SpaceX has been sending payloads to space on a commercially viable basis since 2010. Sir Richard Branson’s Virgin Galactic is on track to take its first fully paid-up customers into near-space by the end of this year, all of which was revealed by my colleague John Sunyer’s recent piece on property space wars. And a company called Planetary Resources is making serious attempts to identify asteroids for commercial mining missions in the not too distant future. Small surprise then that the issue of extraplanetary property rights has been raised by the likes of Robert Bigelow, founder of Bigelow Aerospace, a company hoping to put private living quarters in space. Above all, Bigelow is worried that if the capitalist west doesn’t go about annexing celestial bodies in the name of private enterprise, some other nation will go empire-building in its own name instead. The argument pro property rights is simple. **What we’re approaching is a new Wild West period for humanity**. A time when anyone ingenious or intrepid enough to get themselves into space should rightfully be rewarded with ownership and autocracy over the land masses they discover or forge. Especially since this time around there are no native inhabitants, or at least none that we humans can divine, to be displaced in the process. Call it the classic expansionist approach to property allocation. Or as comedian Eddie Izzard once joked, stealing countries with the cunning use of flags. If you can claim it and defend it, it becomes yours. The problem with this way of thinking is that the **Wild West is a poor analogy for space exploration**. First there’s the access issue. Getting to the New World may have been harsh and costly, but it was still exponentially easier **– and thus more equitable** – than getting to space. Second, when the pilgrims set sail for America, they never looked back. Yes, they still depended on trade, but they did so on an equal footing with their trade partners because they had just as many valuable resources, if not more, to exchange. The American war of independence was about shedding the yoke of the old land, which still desired to rule the colonies despite their self-sufficiency. The same clearly does not apply to the hostile territory of space. The chance that any colonist on Mars, the Moon or an asteroid will be self-sufficient enough to break their dependence on Earth is **infinitesimally small.** To the contrary, private missions are likely to remain **dependent on national jurisdictions** for launches and life support for decades if not centuries. Is it a risk, then, that nation-states will see this as an invitation to go empire-building in space instead? Unlikely. Article II of the UN Outer Space Treaty already sets out the parameters clearly: “Outer space, including the Moon and other celestial bodies, is not subject to national appropriation by claim of sovereignty, by means of use or occupation, or by any other means.” It is a treaty we should be thankful for, not least because it paved the way to a truly unprecedented era of international co-operation, resulting in, among other things, the International Space Station. If any sovereign state dared to break it, say by invading the Moon, they would, without a shadow of a doubt, find themselves testing the international community, and consequently the established nuclear power balance here on Earth. That means, for as long as a space colony depends on Earth-based ties, the incentive for a nation-state to abide by Earth-based rules remains. It’s game theory. Unfortunately, the same cannot be said for private enterprise**. A power-hungry space baron** could feasibly argue that the UN treaty does not apply to them since they are not a sovereign state. Then there is also the caveat that the treaty only refers to celestial rather than man-made bodies. This is what you could call the **dark side of space commercialisation**. The point at which open access to space creates a **Pandora’s box** effect that in the name of competition **compromises space co-operation and disrupts the power balance** we’ve achieved both in space and on Earth. The point when a power-hungry billionaire could find a legal path to **building his own Death Star.** Elon Musk’s testimony to the Senate appropriations hearing on March 5 speaks of the potential power play in hand. As he argued, US national security is being undermined by the country’s dependence on Russian parts and launches, especially in light of the latter’s de facto annexation of the Crimea region. It would be much better, says Musk, if the US transferred more of its business to private enterprises like SpaceX. To Musk, access to space should be treated the same way access to commodities is treated on Earth. The only problem with this analogy is that private corporations competing for commodities still have to abide by national rules. Commercial space enterprises, it seems, would prefer it if sovereign states **became dependent on private enterprise instead** – the surest way of exposing Earth to the **risk of a megalomaniac that wants to rename Mars one day**.

#### 5. Utopian space fantasies are precisely that; they will never happen. Their purpose is to distract the public from a new age of capital accumulation.

Marx, 21

(Paris Marx is a socialist writer and host of the Tech Won't Save Us podcast. <https://www.jacobinmag.com/2021/07/billionaires-space-richard-branson-jeff-bezos-elon-musk> , 7-13)

The May 30 launch symbolized both Trump’s desire to project an image of revived American greatness and Musk’s need not only to bolster the myth that makes his wealth possible, but to set the foundations for a privatized space industry. The space billionaires — Musk and Amazon CEO Jeff Bezos foremost among them — have little stake in the well-being of the majority of the population. Their space visions are designed for wealthy people like themselves, with little mention of where the working class would fit in. They’ve built their wealth on exploitation, and their visions of the future are little more than an extension of their present actions. A History of Violence The business practices of Musk and Bezos are increasingly well known and have been on clear display during the pandemic. Musk tried to claim Tesla’s Fremont, California factory was “essential” until authorities forced him to close it; then he reopened it in defiance of health orders. As Tesla CEO, Musk has a long history of opposing the unionization of workers, presiding over a high rate of worker injuries (which the company tried to cover up), and even having a former worker hacked and harassed after he became a whistleblower. Meanwhile, Bezos has a similar history of abusing Amazon workers. Amazon’s warehouses are known for having higher injury rates than the industry average, the company has fought unionization, and the stories of the terrible conditions experienced by workers are legendary. During the pandemic, that has continued, with the company failing to enforce social distancing or provide adequate protective equipment until workers began walking out, refusing to be open about infection information, and firing workers who dared criticize the company, all while Bezos’s wealth has increased by more than $30 billion. But it goes beyond that, because the worldviews of these billionaires began to be formed long before they started the empires they currently lord over. Musk did not have a regular childhood, but rather a wealthy upbringing in apartheid South Africa. His father was an engineer and owned part of an emerald mine in Zambia, telling Business Insider, “We were very wealthy. We had so much money at times we couldn’t even close our safe.” In Elon Musk: Tesla, SpaceX, and the Quest for a Fantastic Future, Ashlee Vance describes how Musk got money from his father when he was starting one of his original ventures. He also had a particular admiration for his grandfather, who moved to apartheid South Africa from Canada after rallying “against government interference in the lives of individuals.” Bezos has a not dissimilar story. His father was a well-off oil engineer in Cuba while Fulgencio Batista was in power. In Bit Tyrants, Rob Larson explains that Bezos’s father left the island after the Cuban Revolution and passed his libertarian views down to his son. Bezos’s parents invested nearly $250,000 in Amazon in 1995 as it was getting started. These space barons made their billions through the exploitation of their workers and came from well-off backgrounds made possible from resource extraction. When digging into their visions for a future in space, it’s clear that they seek to extend these conditions into the cosmos, not challenge them in favor of space exploration for the benefit of all. The Future They Want Musk and Bezos are the leading drivers of the modern push to privatize and colonize space through their respective companies, SpaceX and Blue Origin. Their visions differ slightly, with Musk preferring to colonize Mars, while Bezos has more interest in building space colonies in orbit. In 2016, Musk claimed he would begin sending rockets to Mars in 2018. That never happened, but it hasn’t ended his obsession. Musk is determined to make humans a multi-planetary species, framing our choice as either space colonization or the risk of extinction. Bezos says that Earth is the best planet in our solar system, but if we don’t colonize space we doom ourselves to “stasis and rationing.” These framings serve the interests of these billionaires, and make it seem like colonizing space is an obvious and necessary choice when it isn’t. It ignores their personal culpability and the role of the capitalist system they seek to reproduce in causing the problems they say we need to flee in the first place. Billionaires have a much greater carbon footprint than ordinary people, with Musk flying his private jet all around the world as he claims to be an environmental champion. Amazon, meanwhile, is courting oil and gas companies with cloud services to make their business more efficient, and Tesla is selling a false vision of sustainability that purposely serves people like Musk, all while capitalism continues to drive the climate system toward the cliff edge. Colonizing space will not save us from billionaire-fueled climate dystopia. But these billionaires do not hide who would be served by their futures. Musk has given many figures for the cost of a ticket to Mars, but they’re never cheap. He told Vance the tickets would cost $500,000 to $1 million, a price at which he thinks “it’s highly likely that there will be a self-sustaining Martian colony.” However, the workers for such a colony clearly won’t be able to buy their own way. Rather, Musk tweeted a plan for Martian indentured servitude where workers would take on loans to pay for their tickets and pay them off later because “There will be a lot of jobs on Mars!” Bezos is even more open about how the workforce will have to expand to serve his vision, but has little to say about what they’ll be doing. His plan to maintain economic “growth and dynamism” requires the human population to grow to a trillion people. He claims this would create “a thousand Mozarts and a thousand Einsteins” who would live in space colonies that are supposed to house a million people each, with the surface of Earth being mainly for tourism. Meanwhile, industrial and mining work would move into orbit so as not to pollute the planet, and while he doesn’t explicitly acknowledge it, it’s likely that’s where you’ll find many of those trillion workers toiling for their space overlord and his descendants. Space Shouldn’t Serve Capitalists In 1978, Murray Bookchin skewered a certain brand of futurism that sought to “extend the present into the future” and desired “multinational corporations to become multi-cosmic corporations.” Much of this future thinking obsesses about possible changes to technology, but seeks to preserve the existing social and economic relations — “the present as it exists today, projected, one hundred years from now,” as Bookchin put it. That’s at the core of the space billionaires’ vision for the future. Space has been used by past US presidents to bolster American power and influence, but it was largely accepted that capitalism ended at the edge of the atmosphere. That’s no longer the case, and just as past capitalist expansions have come at the expense of poor and working people to enrich a small elite, so too will this one. Bezos and Trump may have a public feud, but that doesn’t mean that their mutual interest isn’t served by a renewed US push into space that funnels massive public funds into private pockets and seeks to open celestial bodies to capitalist resource extraction. This is not to say that we need to halt space exploration. The collective interest of humanity is served by learning more about the solar system and the universe beyond, but the goal of such missions must be driven by gaining scientific knowledge and enhancing global cooperation, not nationalism and profit-making. Yet that’s exactly what the space billionaires and American authoritarians have found common cause in, with Trump declaring that “a new age of American ambition has now begun” at a NASA press briefing just hours before cities across the country were placed under curfew last week. Before space can be explored in a way that benefits all of humankind, existing social relations must be transformed, not extended into the stars as part of a new colonial project.

#### 6. Statistically, economic inequality outweighs war.

Richter, 15

(Roxane, *Disaster Types and their Consequences for Women* in Medical Outcasts: Gendered and Institutionalized Xenophobia in Undocumented Forced Migrant’s Emergency Health Care)

As we see above in Galtung’s “Typology of Violence" from 1969 (Table 2.1), the “need groups” may be disadvantaged to such an extent that they starve, become terminally ill from the result of illness or disease, or die. The second category. Exploitation B, leaves the underprivileged in a constant involuntary state of poverty, usually comprising malnutrition and illness. These effects all occur within and at the culmination of multifaceted social and economic structures, and obscured legislative cycles. A noted successor of Galtung’s benchmark work in structural violence, James Gilligan began a quest to look closely at the ties between structural violence and its effects on individuals' health, violent behavior, and society. As a prison psychiatrist and director of the Center for the Study of Violence at Harvard Medical School. Gilligan observed that structural violence differs from behavioral violence in three major respects: In addition to its virtual invisibility, structural violence functions more or less independently of individual behaviors: further, its problematic effects operate continuously, not just sporadically (1996). In his book Violence: Reflections on a National Epidemic. James Gilligan defines structural violence as “the increased rates of death and disability suffered by those who occupy the bottom rungs of society, as contrasted with the relatively lower death rates experienced by those who are above them” (1996, 192). Gilligan largely describes these “excess deaths” as “non-natural" and attributes them to the stress, shame, discrimination, and denigration that results from lower status. Gilligan paralleled the worldwide summations of structural violence to direct (armed conflict, military or political wars) violence thusly: Every fifteen years, on the average, as many people die because of relative poverty as would he killed in a nuclear war that caused 232 million deaths: and every single year, two to three times as many people die from poverty throughout the world as were killed by the Nazi genocide of the Jews over a six-year period. This is. in effect, the equivalent of an ongoing, unending, in fact accelerating, thermonuclear war. or genocide on the weak and poor every year of every decade, throughout the world. .. . The question as to which of the two forms of violence—structural or behavioral—is more important, dangerous, or lethal is moot, for they are inextricably related to each other, as cause to effect. (Gilligan 1996. 195-96) When we fix and focus our view on structural violence through the lens of healthcare, we see that every country is marked by suffering, illnesses, and death, to one extent of another. But it is the distribution of the preventable and manageable illnesses and diseases in underprivileged countries that tip the scales of parity in suffering. It is these “social conditions"—these imbalances of influence—if you will, that affect and influence social justice in healthcare, and creates a poverty of lifesaving access to medication, supplies, treatment, training, and equipment to stave off human suffering from avoidable and unnecessary illness and disease. Didier Fassin in his book Humanitarian Reason quotes Margaret Lock concerning social sentiment on human suffering: “Efforts to reduce suffering have habitually focused on control and repair of individual bodies. The social origins of suffering and distress, including poverty and discrimination, even if fleetingly recognized, are set aside” (2012, 21). (24-5)

#### Plan text: The appropriation of outer space by private entities is unjust.

# FW

#### The impact of structural violence cumulatively outweighs – challenging the structures that facilitate inequality is necessary

Ansell, 17

David A. Ansell, Senior Vice President, Associate Provost for Community Health Equity, and Michael E. Kelly Professor of Medicine at Rush University Medical Center (The Death Gap: How Inequality Kills, p. 7-10)

There are many different kinds of violence. Some are obvious: punches, attacks, gunshots, explosions. These are the kinds of inter- personal violence that we tend to hear about in the news. Other kinds of violence are intimate and emotional. But the deadliest and most thoroughgoing kind of violence is woven into the fabric of American society. It exists when some groups have more access to goods, resources, and opportunities than other groups, including health and life itself. This violence delivers specific blows against particular bodies in particular neighborhoods. This unequal advantage and violence is built into the very rules that govern our society. In the absence of this violence, large numbers of Americans would be able to live fuller and longer lives. This kind of violence is called structural violence, because it is embedded in the very laws, policies, and rules that govern day-to- day life.8 It is the cumulative impact of laws and social and economic policies and practices that render some Americans less able to access resources and opportunities than others. This inequity of advantage is not a result of the individuals personal abilities but is built into the systems that govern society. Often it is a product of racism, gender, and income inequality. The diseases and premature mortality that Windora and many of my patients experienced were, in the words of Dr. Paul Farmer, "biological reflections of social fault lines."9 As a result of these fault lines, a disproportional burden of illness, suffering, and premature mortality falls on certain neighborhoods, like Windora's. Structural violence can overwhelm an individual's ability to live a free, unfettered, healthy life. As I ran to evaluate Windora, I knew that her stroke was caused in part by lifelong exposure to suffering, racism, and economic deprivation. Worse, the poverty of West Humboldt Park that contributed to her illness is directly and inextricably related to the massive concentration of wealth and power in other neighborhoods just miles away in Chicago's Gold Coast and suburbs. That concentration of wealth could not have occurred without laws, policies, and practices that favored some at the expense of others. Those laws, policies, and practices could not have been passed or enforced if access to political and economic power had not been concentrated in the hands of a few. Yet these political and economic structures have become so firmly entrenched (in habits, social relations, economic arrangements, institutional practices, law, and policy) that they have become part of the matrix of American society. The rules that govern day-to-day life were written to benefit a small elite at the expense of people like Windora and her family. These rules and structures are powerful destructive forces. The same structures that render life predictable, secure, comfortable, and pleasant for many destroy the lives of others like Windora through suffering, poverty, ill health, and violence. These structures are neither natural nor neutral. The results of structural violence can be very specific. In Windora's case, stroke precursors like chronic stress, poverty, and uncontrolled hypertension run rampant in neighborhoods like hers. Windora's ill- ness was caused by neither her cultural traits nor the failure of her will. Her stroke was caused in part by inequity. She is one of the lucky ones, though, because even while structural violence ravages her neighbor- hood, it also abets the concentration of expensive stroke-intervention services in certain wealthy teaching hospitals like mine. If I can get to her in time, we can still help her. Income Inequality and Life Inequality Of course, Windora is not the only person struggling on account of structural violence. Countless neighborhoods nationwide are suffering from it, and people are dying needlessly young as a result. The mag- nitude of this excess mortality is mind-boggling. In 2009 my friend Dr. Steve Whitman asked a simple question, "How many extra black people died in Chicago each year, just because they do not have the same health outcomes as white Chicagoans?" When the Chicago Sun- Times got wind of his results, it ran them on the front page in bold white letters on a black background: "health care gap kills 3200 Black Chicagoans and the Gap is Growing." The paper styled the head- line to look like the declaration of war that it should have been. In fact, we did find ourselves at war not long ago, when almost 3,000 Americans were killed. That was September 11,2001. That tragedy propelled the country to war. Yet when it comes to the premature deaths of urban Americans, no disaster area has been declared. No federal troops have been called up. No acts of Congress have been passed. Yet this disaster is even worse: those 3,200 black people were in Chicago alone, in just one year. Nationwide each year, more than 60,000 black people die prematurely because of inequality.10 While blacks suffer the most from this, it is not just an issue of racism, though racism has been a unique and powerful transmitter of violence in America for over four hundred years.11 Beyond racism, poverty and income inequality perpetuated by exploitative market capitalism are singular agents of transmission of disease and early death. As a result, there is a new and alarming pattern of declining life expectancy among white Americans as well. Deaths from drug overdoses in young white Americans ages 25 to 34 have exploded to levels not seen since the AIDS epidemic. This generation is the first since the Vietnam War era to experience higher death rates than the prior generation.12 White Americans ages 45 to 54 have experienced skyrocketing premature death rates as well, something not seen in any other developed na- tion.13 White men in some Appalachian towns live on average twenty years less than white men a half-day's drive away in the suburbs of Washington, DC. Men in McDowell County, West Virginia, can look forward to a life expectancy only slightly better than that of Haitians.14 But those statistics reflect averages, and every death from structural violence is a person. When these illnesses and deaths are occurring one at a time in neighborhoods that society has decided not to care about—neighborhoods populated by poor, black, or brown people— they seem easy to overlook, especially if you are among the fortunate few who are doing incredibly well. The tide of prosperity in America has lifted some boats while others have swamped. Paul Farmer, the physician-anthropologist who founded Partners in Health, an inter- national human rights agency, reflects on the juxtaposition of "unprecedented bounty and untold penury": "It stands to reason that as beneficiaries of growing inequality, we do not like to be reminded of misery of squalor and failure. Our popular culture provides us with no shortage of anesthesia."15 That people suffer and die prematurely because of inequality is wrong. It is wrong from an ethical perspective. It is wrong from a fair- ness perspective. And it is wrong because we have the means to fix it.

#### Prioritizing flashpoint conflicts and crises is a privileged form of impact calculus. Slow violence is rendered invisible under traditional moral frameworks because it happens at the level of the everyday.

Ahmann, 18

(Ahmann, Chloe. "“It’s exhausting to create an event out of nothing”: Slow Violence and the Manipulation of Time." Cultural Anthropology 33, no. 1 (2018): 142–171. <https://doi.org/10.14506/ca33.1.06>, JKS)

Anthropologists have long been concerned with the experience of crisis as a moment of heightened social action, set apart from the “imponderabilia of actual life” (Malinowski 1984, 20). But crisis is a privileged designation—a moment of rupture—that incites action and brings contradictions to light (cf. Roitman 2013; Masco 2017). In an attempt to describe scenes that dispossess without ever breaching thresholds of eventfulness, scholars have also begun to attune to sluggish temporalities of suffering. Rob Nixon’s (2011) “slow violence,” Lauren Berlant’s (2011, 95) “slow death,” and Elizabeth Povinelli’s (2011, 4) “quasi-events,” for example, depend on forms of delay, deferral, attrition, and accumulation whose ordinariness is their violence. As Nixon (2011, 4) explains: “Violence is customarily conceived as an event that is immediate in time, explosive and spectacular in space, and as erupting into instant sensational visibility. We need, I believe, to engage a different kind of violence . . . incremental and accretive, its calamitous repercussions playing out across a range of temporal scales.” Slow forms of violence are not only environmental. In the shift from taking life to letting die, even Michel Foucault (2003) recognized that not all deaths are events. Encompassing chronic health conditions alongside milieus of cruddiness (Povinelli 2011), infirmity (Cazdyn 2012), and ruination (Stoler 2013), slow violence refers to a general wearing out, to “deterioration as a defining condition of . . . historical existence” (Berlant 2011, 95). But it also invokes a particular set of challenges. Neither spectacular nor instantaneous, and often proceeding at a speed that decouples suffering from its original causes, slow violence can be difficult to represent, even to perceive. And though many have acknowledged the consequences of inattention and the anesthetizing effects of routine, fewer have shed light on how people mired in the experience of slow violence themselves use time to maneuver politically. In this essay, I focus on the deliberate manipulations of time that characterize responses to slow violence and argue that this condition need not incapacitate its victims. Instead, it can invite creative forms of temporal arrangement, orchestration, and a phenomenon I term moral punctuation: an explicit marking of time that condenses protracted suffering and demands an ethical response, eschewing the delays of political caution and the painstaking work of ensuring scientific certainty. My goal, in other words, is not only to draw attention to the insidious nature of slow or invisible suffering but also to emphasize how affected groups occasionally work time to emphasize their vulnerability. Moreover, I focus on the importance of sustained collective action in the adaptation of time as strategy. In doing so, I join others working on the politics of pollution (e.g., Bullard 1990; Checker 2005) while making temporal tactics a more explicit object of ethnographic scrutiny. This focus challenges the impression that time and perceptibility are chiefly mechanisms of oppression. Instead—like expertise (Brown 1992; Allen 2003) and access to information (Fortun 2001)—they are overt objects of contestation among historically disenfranchised groups (see also Liboiron 2015).

#### Recognizing structural violence is key to mitigating its oppressive effects

Winter and Leighton, 99

[Deborah DuNann Winter and Dana C. Leighton. Winter: Psychologist that specializes in Social Psych, Counseling Psych, Historical and Contemporary Issues, Peace Psychology. Leighton: PhD graduate student in the Psychology Department at the University of Arkansas. Knowledgable in the fields of social psychology, peace psychology, and ustice and intergroup responses to transgressions of justice] (Peace, conflict, and violence: Peace psychology in the 21st century. Pg 4-5)]

Finally, **to recognize the operation of structural violence forces us to ask questions about how and why we tolerate it**, questions which often have painful answers for the privileged elite who unconsciously support it. A final question of this section ishow and why we allow ourselves to be so oblivious to structural violence. Susan Opotow offers an intriguing set of answers, in her article Social Injustice. She argues that **our normal perceptual/cognitive processes divide people into in-groups and out-groups. Those outside our group lie outside our scope of justice. Injustice that would be instantaneously confronted if it occurred to someone we love or know is barely noticed if it occurs to strangers or those who are invisible or irrelevant. We do not seem to be able to open our minds and our hearts to everyone,** so we draw conceptual lines **between those who are in and out of our moral circle.** Those who fall outside are **morally** excluded, **and become either invisible, or demeaned in some way** so **that** we do not **have to** acknowledge the injustice they suffer. Moral exclusion is a human failing, but Opotow argues convincingly that it is an outcome of everyday social cognition. **To reduce its nefarious effects**, we must be vigilant in **noticing and** listening to oppressed, **invisible**, outsiders. Inclusionary thinking can be fostered **by relationships, communication, and appreciation of diversity**.Like Opotow, all the authors in this section point out that structural violence is not inevitable if we become aware of its operation, and build systematic ways to mitigate its effects. Learning about structural violence may be discouraging, overwhelming, or maddening, but these papers encourage us to step beyond guilt and anger, and begin to think about how to reduce structural violence. All the authors in this section note that the same structures (such as global communication and normal social cognition) which feed structural violence, can also be used to empower citizens to reduce it.

# Underview

#### 1. Beware the space industrial complex- “corporate innovations” are really government handouts that extend unequal social relations to the stars. Neg futurism should be viewed with extreme skepticism

Savage, 21

(Luke Staff is a writer at Jacobin Magazine. Writes about Canadian and international politics, religion, labour issues, philosophy, and the history of the democratic left and has appeared in The Guardian, Canadaland, Maisonneuve, the New Statesman, The Tyee, Current Affairs, and others and also co-hosts a weekly podcast about current events agitprop cinema. <https://www.jacobinmag.com/2021/05/spacex-blue-origin-musk-bezos-space-race-endless-frontier-act>)

In its promethean quest to conquer the heavens and transcend the limitations of earthly existence, the human race may be on the cusp of reaching an historic milestone: in this case, the successful launch of a giant barrel filled with pork into outer space. Thanks in large part to the giant corporate PR machines now in the fray, the burgeoning contest for dominance of the twenty-first century space travel market tends to be perceived in the loftiest of terms: saturated with futurist mythology and defined by grandiose pronouncements about asteroid mining, multiyear voyages to Mars, and interstellar colonization. But, as this week’s wrangling in Congress suggests, the accelerating rivalry between Elon Musk’s SpaceX and Jeff Bezos’ Blue Origin is destined to play out in a decidedly less than utopian fashion. The tell, as documented in a recent report from the Intercept, is an absurd $10 billion amendment to the sinisterly titled Endless Frontier Act introduced by Washington senator Maria Cantwell. Under the highly dubious auspices of funding scientific and technological research, the cash would almost certainly go straight to Blue Origin — which last month narrowly missed out on a lucrative contract to put astronauts on the moon, and just so happens to be based in Cantwell’s home state (the contract instead went to SpaceX, a move NASA has justified with the absolute howler that it was attempting to “preserve a competitive environment”). The question at hand may officially concern lunar exploration, but the whole episode looks like a textbook case of pork barrel politics run amok. In introducing a rival amendment intended to strip the bill of its absurd $10 billion handout to Blue Origin, the famously direct junior senator from Vermont simply had this to say: “It does not make a lot of sense to me that we would provide billions of dollars to a company owned by the wealthiest guy in America.” As is typically the case, Bernie Sanders had it right: Jeff Bezos’s wealth is by this point less an actual number than a matter for philosophical debate, and there is no tenable justification for handing him public money. He was equally right in using the occasion to question the whole idea of privately led space exploration: When we were younger, and Neil Armstrong made it to the Moon, there was incredible joy and pride in this country that the United States of America did something people had forever thought was impossible: we sent a man to the Moon … an extraordinary accomplishment for all of humanity, not just the United States…. I worry very much that what we are seeing now is two of the wealthiest people in this country — Elon Musk and Mr. Bezos — deciding that they are going to take control over our [efforts] to get to the Moon and, maybe, even the extraordinary accomplishment of getting to Mars…. I have a real problem that, to a significant degree, we are privatizing that effort…. This is something that … all of us should be part of, and not simply a private corporate undertaking. As the free market innovates its way to monopolistic control of the solar system by the Earth’s two richest men, it remains as yet unclear how far both technology and capitalism will actually allow the billionaire-dominated venture to go. Bezos and Musk, as you might expect, paint a utopian portrait of interplanetary colonies and abundant life flourishing off-world. Investors in speculative companies like Planetary Resources and Deep Space Industries, meanwhile, hope that the mining of precious metals from asteroids will unlock untold wealth and bring about a new industrial revolution. The most probable scenario for such efforts, of course, is also far more banal: a primary focus on control of vital infrastructure like satellites by large corporations and their billionaire owners. In the unlikely event that technology ever does allow interstellar colonization to be both possible and profitable, however, it’s safe to assume the result will look more like Blade Runner than Star Trek if people like Musk and Bezos are involved. There’s no reason to believe, after all, that extending the profit motive into outer space would yield a different set of social relations than the ones it already produces here on Earth (think orbital Tesla workhouses and overworked Amazon employees trying to relieve themselves in zero-g). Either way, this week’s absurd congressional wranglings over glorified handouts to the world’s two wealthiest men are as good a reminder as any that a privatized space race has far more to do with earthly vice than off-world utopia. Billionaires have already been allowed to devour much of the global economy. Must we let them own the solar system too?

#### 2. There is no such thing as “space philanthropy”- private actors are interested in self promotion, not saving humanity. Their efforts directly gut government programs to allow market capture

Riederer, 18

(Rachel Riederer is a science and culture writer. <https://www.jacobinmag.com/2018/07/space-barons-review-elon-musk-bezos-thai-cave>, 7-19)

It is impossible for any reader living through the ravages of global warming to scan these sentiments without skepticism. If someone is going to invest enormous amounts of wealth and time in an engineering project, gathering together some of the smartest scientists on the planet to develop and test creative solutions to an intractable problem, in the interest of saving the future of humanity, how could you choose any focus but climate change? Davenport doesn’t ask, taking at face value the space barons’ declarations that they are motivated by planetary rescue. For those interested in the movement to privatize space exploration and space itself, The Space Barons does serve as a useful primer, laying out the timelines and geneses of these companies. But it stops short of posing critical questions about what it means for such enterprises to be privately held — a line of questioning that, given the history of labor problems and tendencies toward monopolization at the barons’ non-space companies Amazon and Tesla, might be very good questions to ask indeed. It instead leans heavily on colorful anecdotes about the companies’ founders and their philosophies. Bezos, obsessed with the accomplishments of NASA ever since he watched the moon landing at the age of five, commissions an underwater search party to recover the Apollo-era Saturn V rocket engines from the floor of the Atlantic. Branson evangelizes about the “life-changing” effects of experiencing space and trains for spaceflight in a spinning centrifuge, declaring the adventure “rather fun.” A young Musk floats an idea for a Martian greenhouse project straight out of the sci-fi of Kim Stanley Robinson, “a P.T. Barnum-like stunt” in which he would launch a greenhouse full of seeds and growing medium onto the surface of Mars and make the red planet bloom. A more seasoned Musk sues the US Air Force for the right to compete for national-security launches alongside established aerospace contractors like Boeing and Lockheed Martin. Running through all of these engineering and business adventures is the rivalry between Bezos and Musk. Both are working toward the same goal: developing and producing rockets that can be reused on multiple flights, making regular spaceflight more efficient. When SpaceX successfully launched — and then re-landed — the Falcon 9 for the first time, in December of 2015, Musk was ecstatic. Until he saw a tweet from Bezos offering his congratulations and saying “Welcome to the club!” Bezos had done the same, with his rocket, the New Shepard, the month before. Musk took the success of the Falcon 9 as validation of his long-term goals. “It really quite dramatically improves my confidence that a city on Mars is possible,” he said. “That’s what this is all about.” Well, it’s part of what this is all about. The desire to be beloved, to be seen as a great visionary rescuer, is what’s so grating about Musk’s recent public announcements of altruism, and it’s present throughout the history of all of the companies profiled in The Space Barons. In addition to amassing billions of dollars in personal wealth and living out their rocket-launching boyhood dreams, the space barons insist on framing their pursuits as inspirational and civic-minded. The tension in the recent dust-up over Musk’s unused Thai-cave rescue pods isn’t about whether Musk and his engineers created the rescue pods, but why. Was it a good-faith effort to help a group of desperate kids, or a megalomaniacal attempt to place himself and his companies at the center of a giant news story? Musk wants the answer to be simple, defending his behavior by insisting that “something’s messed up if this is not a good thing.” The space barons are fond of metaphors of exploration and frontiers. They compare themselves to Shackleton and Magellan. “The thing that actually gets me the most excited about it,” Musk says, “is that I just think it’s the grandest adventure I could possibly imagine. It’s the most exciting thing — I couldn’t think of anything more exciting, more fun, more inspiring than to have a base on Mars.” This enthusiasm is fine, of course. But it also shatters the notion that Musk and company are trying to thrust humanity into space to save us all from planetary disaster. Outer space, a flooded network of caves — anywhere dangerous and sparsely visited will draw to it both adventurers and rescuers. But their work proceeds differently, and someone who’s out for a grand adventure shouldn’t pretend to be a planetary EMT. Perhaps the worst thing about the space barons is that they’re burnishing their reputation by rushing into areas vacated by state divestment — divestment that in many cases, they themselves have helped promote. Witness Musk’s recent pledge to “fund fixing the water in any house in Flint that has water contamination” while lavishly contributing to the Republican Party. Musk and his brethren have hoovered up billions of dollars, funded plutocratic causes — and then balk when anyone raises a peep about their narcissistic antics. “They were driven by the business opportunities in space, by adventure, and by ego,” Davenport writes of the group he profiles. “[I]magine the Promethean legacies they’d leave after opening up the Final Frontier.” Yet Promethean legacy is a double-edge sword: the trickster who stole fire from the gods and gave it to mankind is as much a symbol of tragic consequences as of human progress.

#### 3. No turns- space billionaires aren’t unique geniuses, they are accidents of history. Allowing them to control space guarantees the worst aspects of exploitative capitalism take over the galaxy

Spencer, 19

(Keith A. Spencer is a senior editor at Salon who edits Salon's science and health vertical. His book, "A People's History of Silicon Valley: How the Tech Industry Exploits Workers, Erodes Privacy and Undermines Democracy," was released in 2018.  <https://www.salon.com/2019/07/28/earths-robber-barons-are-salivating-over-bringing-authoritarian-capitalism-to-space/>)

If the Nazis were to follow imperialism to the next logical step, and establish human colonies on other worlds — asteroids, moons, space stations, or on planets like Mars — a social and political system rooted in oppression, hierarchy and racial superiority would spread, like an infection, to other distant bodies where they would be far more difficult to extract. Part of that is due to an intractable communication problem: even between the most distant regions of Earth, the speed of light is not a noticeable constraint on the amount of time it takes to communicate. The same is not true in space. Authoritarians, of both the Nazi and the corporate variety, are not necessarily fond of free speech nor free communication; they are powerful tools for upsetting the social and political order. Even here in the United States, supposed bastion of liberal democracy, we've seen this play out before. In 2011, the Bay Area Rapid Transit (BART) public transit system suppressed communications networks in order to stifle dissent. As protests over the BART police shooting of Charles Blair Hill spread around the Bay Area, the regional transit system literally turned off the underground cell phone towers that would allow cell and data transmission while underground. The agency, unwisely, openly admitted it: "Organizers planning to disrupt BART service stated they would use mobile devices to coordinate their disruptive activities and communicate about the location and number of BART Police," the transit agency said. "A civil disturbance during commute times at busy downtown San Francisco stations could lead to platform overcrowding and unsafe conditions for BART customers, employees and demonstrators." The American Civil Liberties Union issued a harsh rebuke, and questioned whether the move was even legal for a government agency to do this. "All over the world, people are using mobile devices to protest oppressive regimes, and governments are shutting down cell phone towers and the Internet to stop them," said Michael Risher, a staff attorney for the American Civil Liberties Union of Northern California. "It's outrageous that in San Francisco, BART is doing the same thing." If this is how an American governmental agency behaves when confronted with the prospect of a legitimate peaceful protest, imagine how pro-Martian colonizer Elon Musk — who notoriously detests labor — will behave when his Martian dishwashers strike for higher wages. My point is, if you think that social and political struggles are difficult on Earth, where oxygen is free and the outside is traversable without an airtight suit, just wait until you see what happens when you bring humans to Mars — a planet where round-trip communication with Earth takes forty minutes at a minimum, and nighttime surface temperatures vary between -100 and -195° Fahrenheit. On our capitalist planet, there are no workers whose employers can threaten to leave them stranded, 80 million miles from home, if they don't do their bidding. On Mars, a disgruntled worker's employer could compel them to work by threatening to ever let them go home to Earth again. The potential for slavery on the red planet cannot be underestimated. Historically, the worst capitalist labor abuses on Earth happen to the most powerless workers in situations where no one is looking. Horrific tales of sexual harassment in Antarctica made sense inasmuch as its barrenness makes it an ideal place to be manipulative without anyone noticing. Mines, given their remote nature, are often rife with exploitation — and the history of miner treatment should give us pause as to how workers on Mars or on one of Jeff Bezos's space stations might be treated. This warning is prescient currently because of the intense focus of both government and private actors on the potential to privatize space travel. NASA Administrator Jim Bridenstine wants to create a "robust commercial marketplace" for space travel, has proposed a public-private partnership for the moon, and has spoken of privatizing the international space station. Elon Musk, one of NASA's suppliers in the brave new privatized world, is perfervid about building a Mars colony. Jeff Bezos, the richest human in the world, plans to build giant space stations; his rationale for space colonization is that "we are in the process of destroying this planet," something he actually stated with no palpable sense of irony. There are many who adulate Musk and Bezos, and view them as our generation's heroes. Yet the fact that these men honestly believe they are the ones to lead humans to space has nothing to do with any of their unique qualifications; it is due to a series of historical accidents that randomly thrusts sociopaths to the top of the capitalist food chain. Five decades of deregulation, neoliberal economic policy, and reduced taxation on the highest tax bracket have led us to a unique point in human history, where a few individuals are so wealthy that they have the ability to fund space travel. Again, this is not because these individuals are uniquely competent, nor qualified, to jumpstart colonization; it is an accident of history and economics that makes this situation possible. Nothing more. My fear with space colonization is that humans tend to think of it as inherently different than other political struggles, merely because humans haven't gone to space yet. The idea of space colonization as a cool, fun, exciting, sci-fi thing inhibits our ability to think critically about what it would actually mean to let a bunch of tech CEOs unilaterally colonize the solar system. There are precedents for the political aftereffects of space colonization: we have seen situations where a controlling institution tries to stifle communication on their property to prevent protest; we have seen how workers are exploited in cordoned spaces where their employers think no one is paying attention; we have seen how corporations entrap workers in hostile environments by giving them housing and food, and using that as a wedge to prevent dissent; and we have seen how corporations harvest the labor of the poor and vulnerable in order to avoid paying first-world wages to people who expect benefits. All of these scenarios seem likely to play out in our future if we don't fight back against the space imperialists. If you thought capitalism on Earth was horrific, wait till you see what it looks like in a vacuum.