



BLACK COMMUNITIES

INDIGENOUS COMMUNITIES

LATINX COMMUNITIES

ALLYSHIP





defining

# what is intersectional environmentalism?



# "WE'VE GOT TO DIVEST FROM SYSTEMS THAT ARE KILLING US AND COSTING US, AND INVEST IN OUR PEOPLE AND OUR PLANET"

-HEATHER MCGHEE, SENIOR FELLOW AT DEMOS + AUTHOR



fungus and the environment



Dr. Suzanne Simard/ Exchange of nutrients/ Wood Wide Web

### Dr. Simard grew up in the forests of BC, Canada

Her first experience with the underground world was through an outhouse, where her dog fell in the hole. While her grandpa was digging to get him out, that's when she first noticed the underground pathways (mycelium) and various colourful sediments.

While at university, scientists discovered one pine seedling root could transmit carbon to another pine seedling root. This was in a controlled environment, and Dr. Simard wanted to replicate this in nature...



### Replicating lab discovery in forests of BC

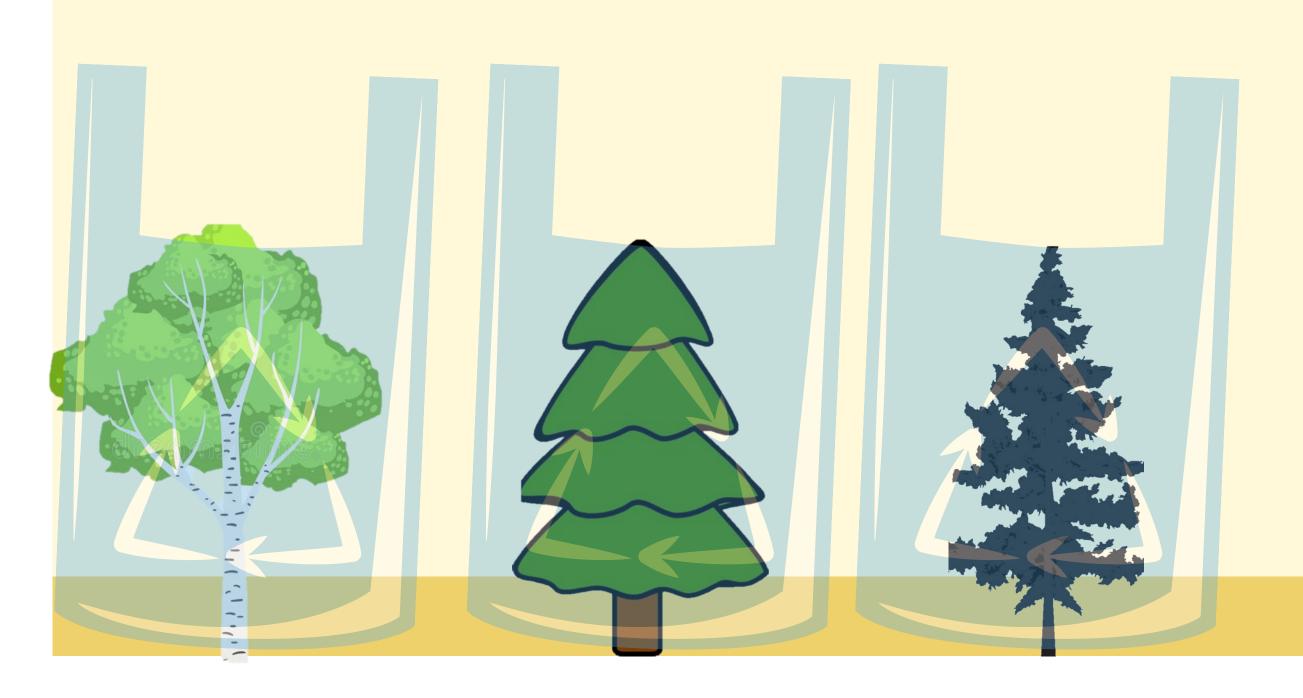
• grew 80 replicates of 3 species (paper birch, douglas fir, western red cedar)

• injected 2 different isotopes into separate tree bags

 discovery!! = birch and fir were communicating by carbon exchanges, they are interdependent and coexist with each other

• conversing through carbon, nitrogen, phosphorous, water exchange, defense signals, and hormones

this is information!!!



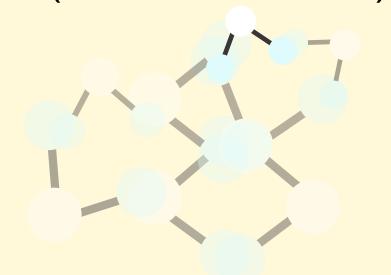
(I wll never forget being chased by a mama bear and her cub the first day into our research)

# contin

- reproductive organs of mycelium (fungal threads) are mushrooms
- where these fungal cells interact with root cells, there's a trade of carbon for nutrients
- there can be hundreds of kilometers of mycellium under one single footstep!



- connects
   individuals of
   the same AND
   different
   species
- works like the internet (nodes + links)



 hub (mother) trees nurture their young and can be conneced to hundreds of other trees



 send messages of wisdom when dying to neighbouring seedlings Ecologist, Professor

### Dr. Suzanne Simard



- showed how fungal thread
   mycelium, a web-like
   underground system allowing
   for communication, nutrient exchange, and coexistance, acts
   as the neurological network of
   the forest
- specializes in birch, fir and cedar trees
  - plants communicating through signals; nutrient exchange, threat signals, carbon transfer, mother trees



- trees work
  better in a
  community;
  there is
  synergy
  between their
  interactions
  - though there is competition in these communities, there is more cooperation and coexistence



history

### The Environmental Justice Movement

Protests inspired by civil rights movements; Latino farm workers in California for workplace rights and protection from harmful pesticides, African American students against a garbage dump in Houston, siting of a sewege treatment plant in West Harlem, Memphis Sanitation Strike

1960-1969

Sit-in protest against Warren County, NC PCB landfill

1982

EPA Administrator creates the Environmental Equity Workgroup

#### 1990

Leah Thomas, inspired by intersectional feminism, popularized intersectional environmentalism. She is at at the forefront of the movement





Bean vs Southwestern Waste
Management Corp, Houston, TX
Dr. Robert Bullard, considered
the father of env. justice,
helped his wife file a lawsuit
against a landfill in Texas

1979

Indigenous Environmentál Network (IEN) formed

1990

President Bill Clinton signed Executive Order 12898, Federal Actions to Address Environmental Injustice in Minority and low-Income Populations

1994



Black
commities

# AGRICULTURE

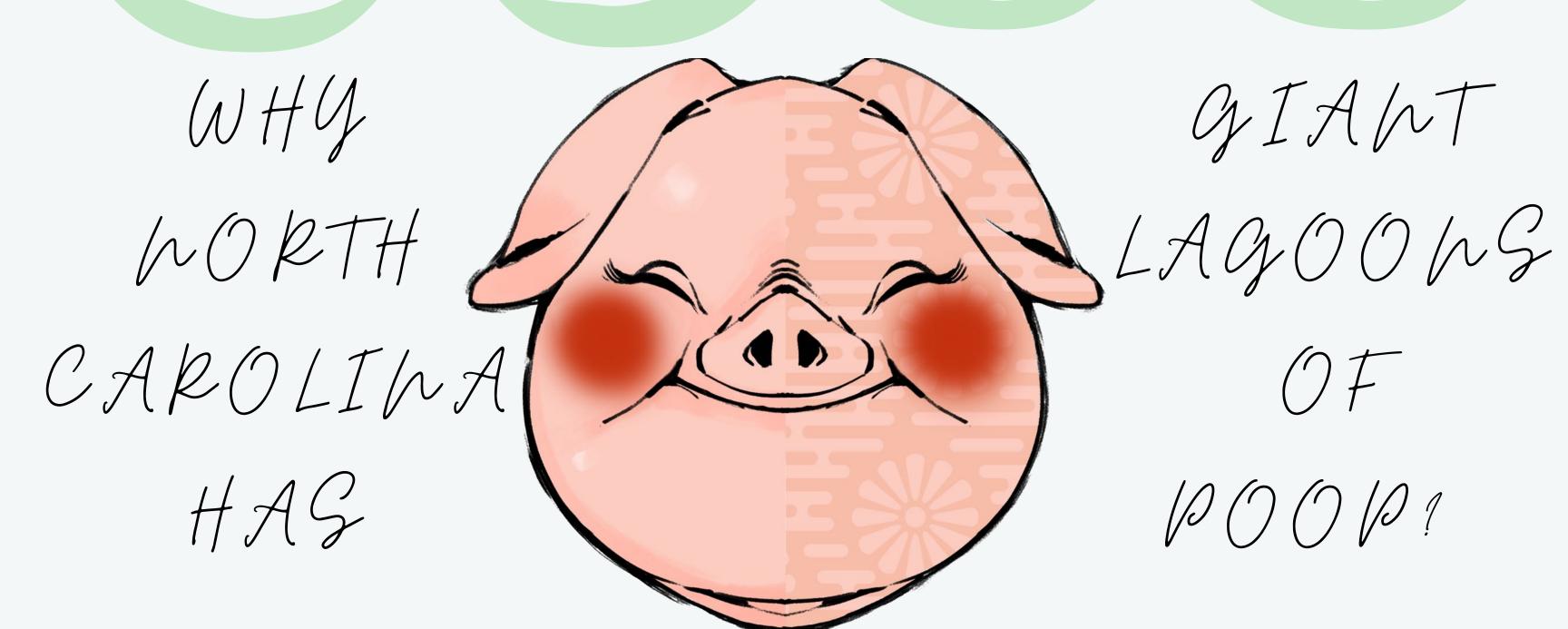
Our relationship with food is foundational to our health and to the health of the environment. The industrialization of agriculture, which started during WW2, has had negative lasting impacts on women + POC and the climate.

Climate: 26% of greenhouse gas emissions come from food, where 58% of that comes solely from the animal industry

Women + POC: lack of land rights, gender bias in the economiic system, gender specific obstacles

We must support local, regenerative, organic farmers to nourish oursleves and our communities; it is a sustainable transition for our bodies and for the planet.

A disproportionate amount of industrialized farms, slaughterhouses and processing facilities are located near low socioeconomic areas and communities of colour



USA's thirdlargest producer of swine, Eastern North Carolina. Smithfield Foods The states' 10
million pigs affect
Black
communities
situated closest to
these industrial
Mog farms

Amount of feces a pig produces is 10x higher than a human. Lack of waste treatment = poop lagoons

BBQs and air drying laundry outside become impossible when the stench of feces never goes away. Cheap meat has consequences for animals as well as humans, especially POC. Black and brown people disproportionately live near these farms, who dispose of pig feces in open lagoons and spray it into the air as fertilizer. These communities not only have to live with the smell, but also a higher risk of asthma, cancer, and death due to proximity of these farms. Wells also get contaminated, creating a water problem. 15, 000 Olympic-size pools of wet animal waste are produced each year in North Carolina.

### FIIMT WATER

### CPIGIS

April 2014-June 2016 Flint, Michigan

public health crisis

Residents
exposed to
dangerous levels
of lead

#### After this change:

- residents advised twice to boil water due to increase in bacteria
- General Motors

   announced water was
   corroding their
   machine parts
- a spike in Legionnaire disease
- elevated levels of carcinogenic trihalomethanes were detected in the water
- dangerous levels of lead detected at U of M-Flint campus

Due to Michigan's
struggling economy, an
unelected emergency
manager was appointed
to run the city.
He switched the city's
water supply from Detroit
Water and Sewage
Department (DWSD) to
the Flint River as a costsavings measure.

A home drinking water test found concentrations of lead 25x higher than level deemed safe by EPA and far exceeded criteria for classifying water as hazardous waste







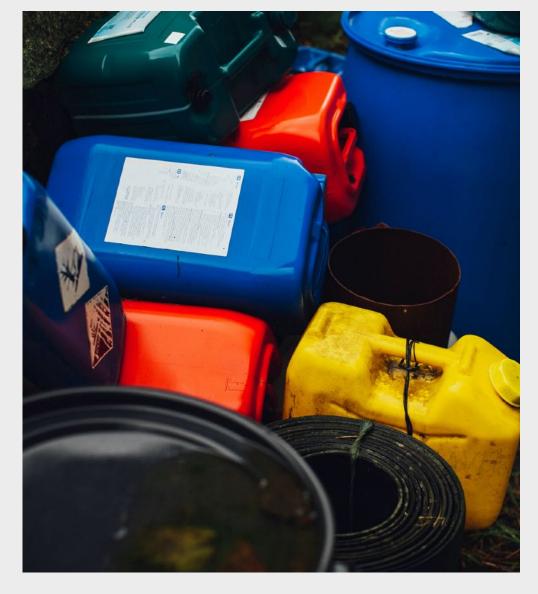
# the underlying problem!



The disaster flowed through one of Michigan's poorest, blackest cities ridden by poverty and racism. Flint is a city that is almost 57% Black and individuals face extreme poverty.

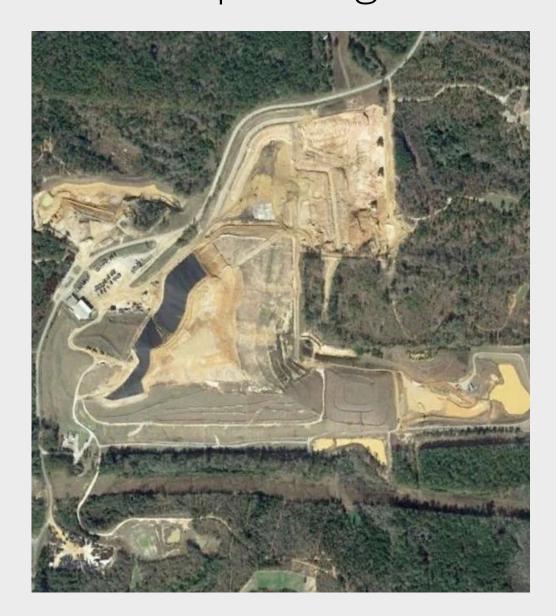
The community faces disproportionate effects of systemic neglect due to weak environmental regulations.

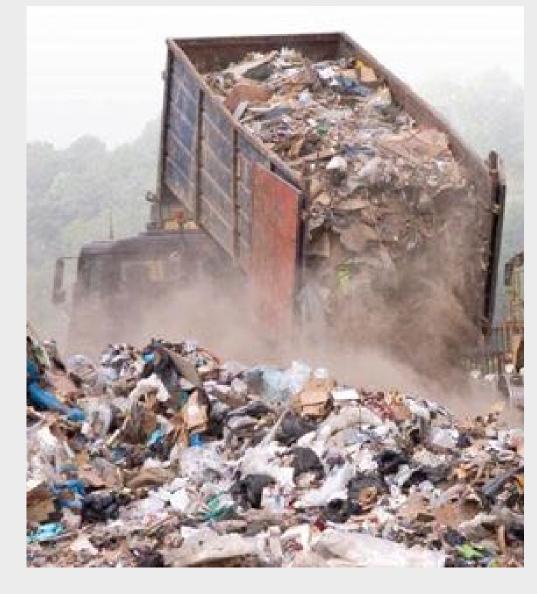
The delayed and irresponsible assistance to the Flint community despite concerns to health safety is evidence of disproportionate environmental injustice.



Chem-Waste Management opened its facility in 1978. At the time, Emelle residents were 94% African-American and poor; now the number stands at more than 75%. The community was lied to: they had been told a brick factory was underway to bring in new jobs. Barrels of waste came in 24/7, from the US and foreign countries as well, in aims of maximizing profit.

Workers' (who were exposed to countless chemicals) shoes would melt off their feet due to lack of protective equipment and respirators. When it came to taking action, people got silent; residents and officials alike. Chem-Waste was funding many companies in the county, thus why it had a strong standing. Citizens were scared of losing their businesses over speaking out.





Among other important findings, a 1987 national report on toxic waste and race built upon 2 cross-sectional studies found that "race proved to be the most significant association with the location of commercial hazardous waste facilities" and "communities with the highest number of waste facilities had the highest composition of racial and ethnic residents."



Chem-Waste

Emelle, Aldbama

Indigenous communities

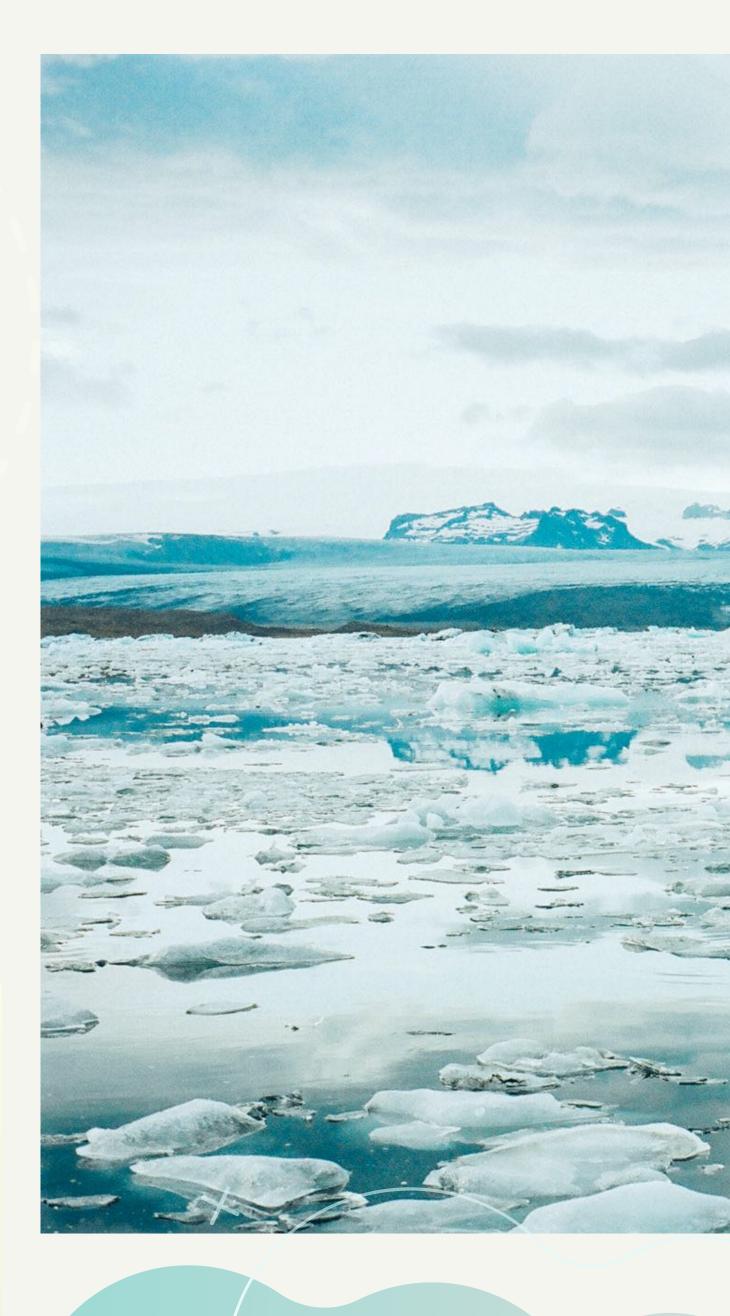
### forced dispolacement of Arctic

### Indigenous communities

Climate change greatly affects the most remote communities. One of the first will be Arctic Indigenous communities. As ice sheets melt, tribes are no longer able to sustain themselves through hunting, as the ice effects wild and marine life. This leads to forced displacement and thousands of climate refugees.



- glacial melts = unreliable water supply
- change in species and availability of traditional food sources
- safety when travelling on ice



Individuals, corporations, and nations who produce the most greenhouse gases are not equally affected by the resulting impacts.

### climate refugee

term used to describe individuals who are forced to permanently relocate due to climate





The film, Thule Tuvalu, follows a family from Thule; how they must adapt to the changing climate and what it means for their identity.

The disproportionate impacts felt by communities thousands of kilometers away is also what fuels climate science denial; it's hard to believe what you can't see



# Alberta's oil sands

Syncrude oil sands just North of Fort McCurry is the world's largest industrial project. For the site to be constructed, much of the Boreal forest must be clearcutted to make way for the operation.

Destructive to the environment + communities: impacts caribou, bison, moose, fish, the water, the forest, ability to travel, and gather food from the land Kinder Morgan's
Trans Mountain
pipeline put
pressure on the
Trudeau
government to build
the pipeline, even
though there was
strong opposition

from

chiefs

Indigenous

Boreal deforestation, toxic tailings ponds, hazardous air emissions, vast use of surface + underground water,

toxic seepage into the Athabasca River, elevated women's cancer rates downstream from the oil sands, Indigenous people shifting to non-traditional foods

TransCanada attempting to build the Coastal GasLink from Kitimat to Dawson Creek. It crosses through the

Wet'suwet'en traditional territory

This is a continous battle Indigenous people of Canada need to fight, as their authority, voices, and opinions are always silenced.

Territory owned by Indigenous peoples is being threatened by lethal projects that have the capability of killing wildlife and nature. It is a direct attack on land + Indigenous rights.

### pulps and payper will: Bryden, Ontario

- spilled mercury poisioning into river system
- Grassy Narrow First Nation, or the Asubpeeschoseewagnog

First Nation affected in northwestern Ontario

- the river system that the Grassy Narrow community relies on for
- , food and water has been poisoned for 50 years
  - ~90% of community suffers from symptoms of mercury poisoning
  - the factory dumped the toxic chemical into a river, poisoning the groundwater, the people, the fish

### mercury poisoning:

- ataxia (degenerative disease of the nervous system)
- numbness in the hands + feet
- general muscle weakness
- damage to hearing and speech
- +continued exposure = brain & kidney damage, early death

### more regative effects

- the community can no longer sustain itself
  - fish were food for the community + provided life to tourism and fishing industries; all receded
- the community's historical relationship with Canada included residential schools, the '60s Scoop, and relocation

### a potential win

- December 2017: then-Indigenous Services

  Minister promised the community full payment by
  the federal government for the construction and
  operation of a treatment center in Grassy Narrows
  - +\$85 million to aid in land and water cleanup
- since that time, little has been done to keep those promises

'60s Scoop: during the 1960s, children were taken from communities and placed in foster homes/put up for adoption

Latinx
communities

## Leystone XL pipeline Alberta - Texas

Refineries which tar sand oil would be brought down to are near largely Latino communities; an accident would disproportionately impact the Latinx communities

The refineries in Texas are located in Harris County, or, the

second largest
Hispanic population
in the US (1.73
million)

The pipeline's contribution to climate change directly impacts the communities, as Latinos already live in coastal and drought-stricken areas of the US

About half of the US' Latino population lives in regions that violate clean air rules; they must be concerned about the health effects of pollution.

### asthma affey (Mott Haven) South Bronx

FreshDirect Warehouse "Communities
of color are
zoned into
poorer
neighborhoods
that have
worse pollution
and less access
to clean water"
-Thanu
Yakupiyiyage

It was found that Hiapanics are exposed to about 63% of the pollution, cause by their counterpart

printing press for The Wall Street Journal + New York Post

FedEx depot

waste transfer station "Residents
need asthma
hospitalizations
at 5x the
national
average + 21x
higher than
other NYC
neighborhoods"

97% Black and/or Latinx neighborhood

# farm workers: the double threat of wildfire smoke and COVID-19

The people who ensure we have food on our tables throughout these hard times are the same ones who are not protected by laws and exposed to intersectional harms.

Farmers in California have been working through raging forest fires; where they are pictured below thick clouds of dangerous smoke. All this, while within the setting of a global pandemic.

The workers in Salinas, Calif, responsible for strawberries, stopped for ONE day, when the smoke became absolutely unbearable.

The predominantly Latino farm workers are disproportionately impacted by the coronavirus; +70% of cases in Monterey County are among Latinos.



allyship

In a racist society, it is not enough to be non-racist, we must be antiracist.

#### Intersectional Environmentalist Pledge:

I will stand in solidarity with Black, Indigenous + POC communities and The Planet

I will not ignore the intersections of environmentalism and social justice

I will use my privilege to advocate for black + brown lives in spaces where this message is often silenced

I will proactively do the work to learn about the environmental and social injustices Black, Indigenous + POC communities face without minimizing

I will respect the boundaries of BIPOC friends and activists and not demand they perform emotional labor or do the work for me

I will share my learnings with other environmentalists and my community

I will amplify the messages of Black, Indigenous + POC activists and environmental leaders

I will not remain silent during pivotal political and cultural moments that impact BIPOC communities

@GreenGirlLeah

Environmentalists For Black Lives Matter Environmentalists For Black Lives Matter



# 

### Discussion on findings...

The sharing of nutrients below ground between mycellium and plant life promotes coexistance, not competition.

The whole system is threatened by natural disturbances, high-grade logging, clear cutting, and forest fires.

This is similar to the unfair distribution of goods + resources due to the prioritization of selfish economic needs, the historical racial segregation of BIPOC communities, and the leading forces of industrialization and capitalism continuously advancing this toxic unjust cycle

Humans should mimic the natural order seen in forests to create a more supportive infrastructure for both human and non-human species and natural environments alike



#### PAGE 4 - What is IE:

**Picture:** Thomas, L. (2020, June 8). [photo] The author at the beach. Retrieved from https://www.vogue.com/article/why-every-environmentalist-should-be-anti-racist

**Definition** retrieved from

https://www.intersectionalenvironmentalist.com/

#### PAGE 5 - Quote:

Quote retrieved from:

https://www.nytimes.com/2020/06/03/climate/black-environmentalists-talk-about-climate-and-anti-racism.html

### PAGE 7 - Mycelium:

**Center image:** Ostapenko, D. (2020, October 12). Mushroom Buildings? The Possibilities of Using Mycelium in Architecture [Photograph]. ArchDaily.

https://www.archdaily.com/949007/mushroom-buildings-the-possibilities-of-using-mycelium-in-architecture

Top right corner image: Hille, R. (2019, December 23).

Mycelium: The Earth's natural internet [Photograph]. Life Cykel. https://us.lifecykel.com/blogs/mushrooms/mycelium-the-earths-natural-internet

### PAGE 8-11 - Mycelium:

---Expert Q&A: Suzanne Simard [Interview]. (n.d.). BioHabitats, 14(4). Retrieved from

Https://www.biohabitats.com/newsletter/fungi/expert-qa-suzanne-simard/.

---TEDtalksDirector. (2016, August 30). How trees talk to each other | Suzanne Simard. Retrieved from https://www.youtube.com/watch?v=Un2yBglAxYs



### Page 13 - Timeline:

---Crump, B.. A Brief History of Environmental Justice: Environmental Justice Lawyers. Retrieved from https://bencrump.com/environmental-justice-lawyer/a-brief-history-of-environmental-justice/

---Lakhani, N. (2019, October 21). 'Racism dictates who gets dumped on': How environmental injustice divides the world. Retrieved from

https://www.theguardian.com/environment/2019/oct/21/what-is-environmental-injustice-and-why-is-the-guardian-covering-ithttps://www.epa.gov/environmentaljustice

**Pictures:** https://blogs.uoregon.edu/caer/2009/01/07/robert-bullard/

---https://www.ienearth.org/ien\_turtlelogo\_small/

https://eu.commercialappeal.com/story/news/2018/03/15/memp his-sanitation-strike-met-hostility-misunderstandingmedia/919171001/

---https://earthjustice.org/blog/2014-february/honoring-a-milestone-the-birth-of-environmental-justice

#### PAGE 15-16 - North Carolina:

- ---Alliance, W. (2016, June 22). Fields of Filth: Landmark Report Maps Feces-Laden Hog and Chicken Operations in North Carolina. Retrieved from https://waterkeeper.org/news/fields-of-filth-landmark-report-maps-feces-laden-hog-and-chicken-operations-in-north-carolina/
- ---Duckett, M. K. (2019, April 05). Empowering female farmers to feed the world. Retrieved from

https://www.nationalgeographic.com/culture/2019/03/partner-content-empowering-female-farmers/

---Dylan Matthews, B. (2020, September 16). Why North Carolina has giant lagoons of pig poop. Retrieved from https://www.vox.com/future-



### Page 15-16 Cont'd:

--Harrabin, R. (2019, August 08). Plant-based diet can fight climate change - UN. Retrieved from https://www.bbc.com/news/science-environment-49238749 ---Tamm, A. (2020). Agriculture. Retrieved from https://www.intersectionalenvironmentalist.com/agriculture

#### PAGE 17-18 - Flint:

---Craven, J., & Tynes, T. (2016, February 03). The Racist Roots Of Flint's Water Crisis. Retrieved from https://www.huffpost.com/entry/racist-roots-of-flints-water-crisis\_n\_56b12953e4b04f9b57d7b118 ---Ray, M. (2019, October 9). Flint water crisis. Retrieved from https://www.britannica.com/event/Flint-water-crisis

#### PAGE 19 - Alabama:

---Chavis Jr., B. F. (1987). Toxic Wate and Race in The United States: A National Report on the Racial and Socio-Economic Characteristics of Communities with Hazardous Waste Sites (pp. 1-10, Rep.). New York, New York: Commission for Racial Justice. ---Nirenberg, M. (2017, November 08). Kaye Kiker has been fighting the biggest Toxic Waste Dump In the US for 40 years. Retrieved from https://www.huffpost.com/entry/kaye-kiker-hasbeen-fighting-the-biggest-toxic waste\_b\_5a035ce0e4b0c7511e1b394e

#### PAGE 21-22 - Arctic Indigenous:

---D. (n.d.). Climate Change for Indigenous Peoples. Retrieved fromhttps://www.un.org/development/desa/indigenouspeoples/climate-change.html

---Monbiot, G. (October 9, 2019). "The big polluters' masterstroke was to blame the climate crisis on you and me," The Guardian.

### Page 21-22 Cont'd:

--Gunten, M. (Director). (2014). Thule Tuvalu -Investigating Climate Change [Video file]. Perry Street Advisors. Retrieved from Kanopy.

### Page 23 - Alberta:

- ---Cecco, L. (2019, January 11). Pipeline battle puts focus on Canada's disputed right to use indigenous land. Retrieved from https://www.theguardian.com/world/2019/jan/11/canada-pipeline-indigenous-trudeau-treaty
- ---Leahy, S. (2019, May 03). This is the world's most destructive oil operation-and it's growing. Retrieved from https://www.nationalgeographic.com/environment/2019/04/alber ta-canadas-tar-sands-is-growing-but-indigenous-people-fight-back/
- ---Perkins, P. (2014). Canadian Indigenous female leadership and political agency in climate change. Routledge.

### Page 24-25 - Dryden:

---Gilson, S. (2019, July 29). 'My Ears Keep

Ringing All the Time': Mercury Poisoning Among Grassy Narrows First Nation. Retrieved from

https://pulitzercenter.org/reporting/my-ears-keep-ringing-all-time-mercury-poisoning-among-grassy-narrows-first-nation

### Page 27 - Keystone XL:

---Atkin, E. (2014, April 07). Group Says Keystone XL Would Disproportionately Harm Latinos. Retrieved from https://archive.thinkprogress.org/group-says-keystone-xl-would-disproportionately-harm-latinos-7f33f5256e1/

### Page 28 - Asthma Alley:

--Burton, N. (2020, June 19). If We Don't Solve Racial Injustice, We'll Never Solve The Climate Crisis. Retrieved from https://www.huffingtonpost.ca/entry/solve-racial-injustice-climate-crisis\_n\_5eea2d48c5b63c66bcffe189?ri18n=true ---Kilani, H. (2019, April 04). 'Asthma alley': Why minorities bear burden of pollution inequity caused by white people. Retrieved from https://www.theguardian.com/us-news/2019/apr/04/new-york-south-bronx-minorities-pollution-inequity

### Page 29 - Farm Workers:

---Mahoney, E. (2020, September 07). Farm Workers Face Double Threat: Wildfire Smoke And COVID-19. Retrieved from https://www.npr.org/2020/09/07/909314223/farm-workers-facedouble-threat-wildfire-smoke-and-covid-19

### Page 31 - quote:

---Retrived from

https://www.greenpeace.org/canada/en/story/38915/anti-racism-toolkit-for-environmentalists/#take-the-pledge

### Page 32 - pledge:

---Courtesy of @greengirlleah on Instagram

### Page 33:

---Thomas, L. (2020, November 11). How To Uplift The Voices Of Young Climate Activists Of Color (Plus 10 Accounts To Follow). Retrieved from https://www.thegoodtrade.com/features/climate-activists-of-color?tdg

