

COLLECTIVE

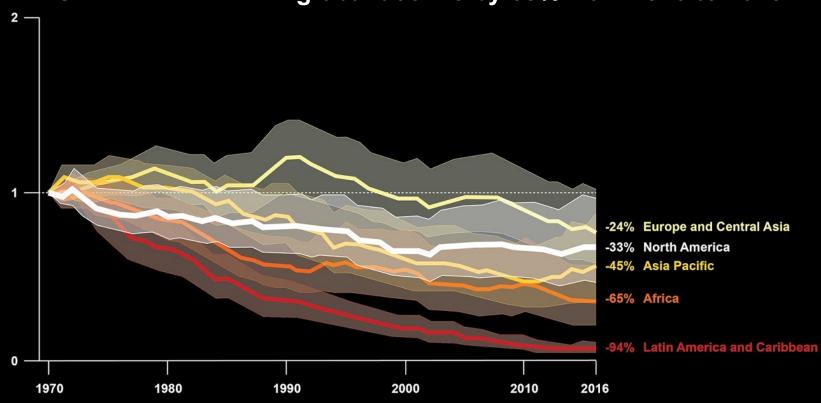








LIVING PLANET INDEX – global decline by 68% from 1970 to 2016

















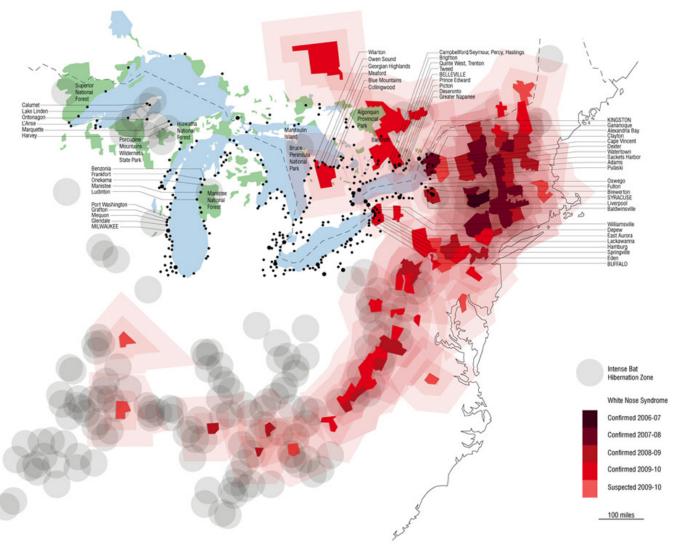
Ants of the Prairie:
Pest Wall, 2009 (upper left)
Habitat Wall, 2015 (upper mid to right)
Bat Cloud, 2012 (lower left)
Bat Tower, 2010 (lower right)











White Nose Syndrome + Bat Hibernation Zone Mapping, 2010: Joyce Hwang

AN END TO BIRDS DYING AT WINDOWS

Up to a billion birds die in collisions with glass each year in the United States. Although most people have seen or heard a bird hit a window, they often believe it is an unusual event. Add up all those deaths and the number is staggering.

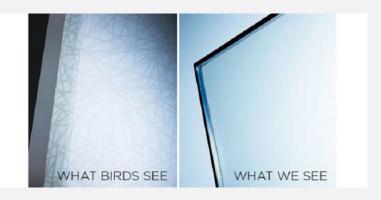




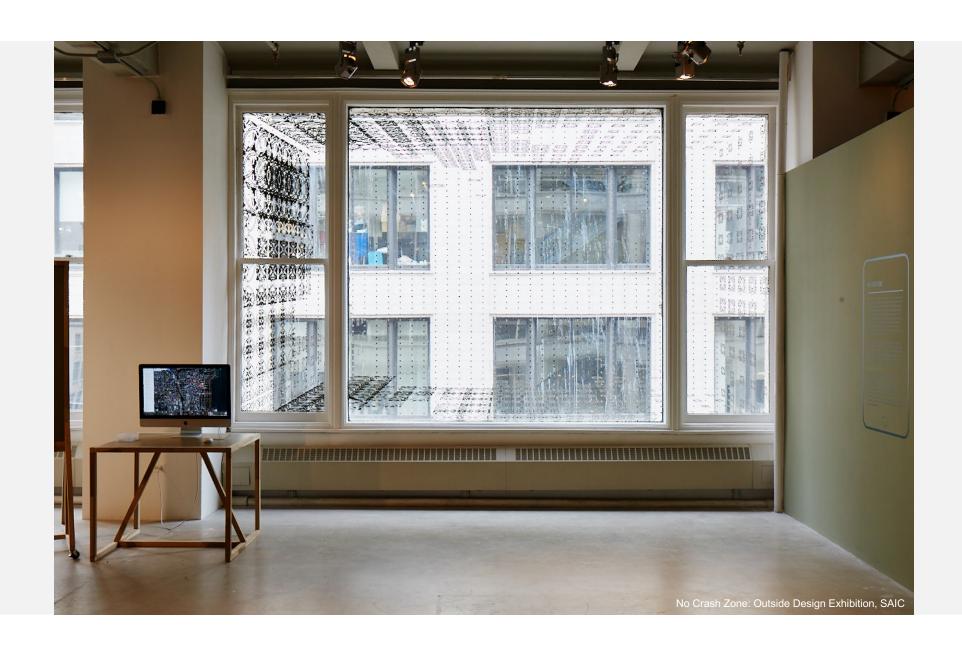


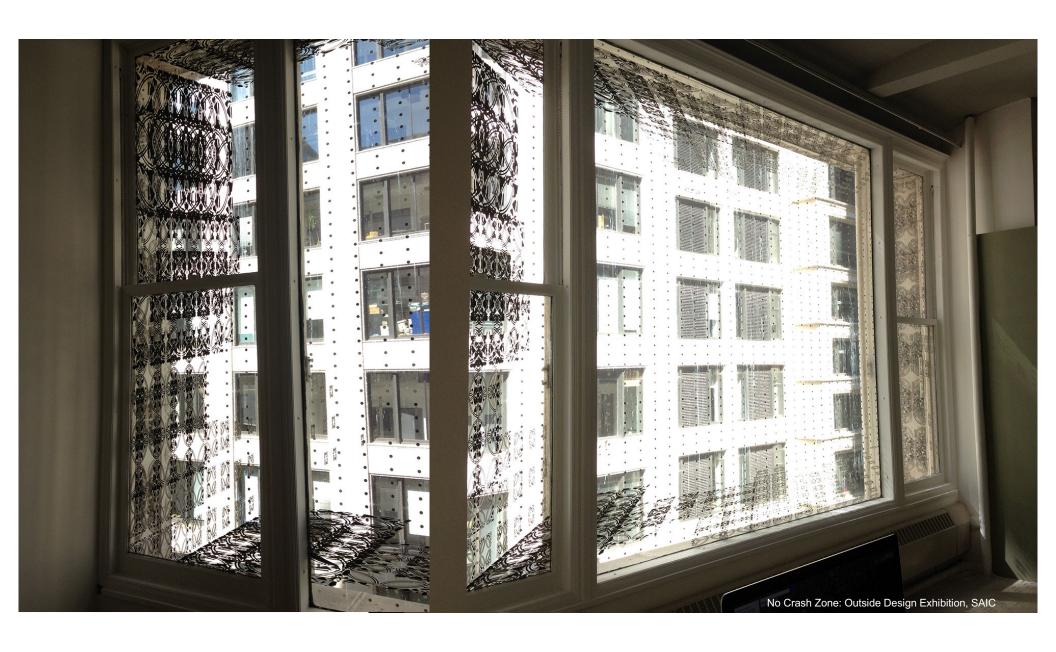






Upper left: NYC Audubon, Lower left: National Audubon, Upper right: American Bird Conservancy Bird-Friendly Building Design Guide; Lower right: Ornilux Bird Protection Glass by ArnoldGlas



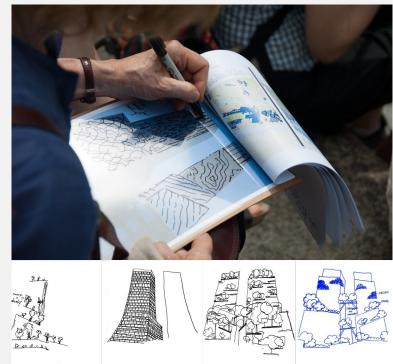


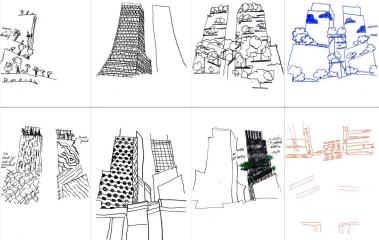


















Bower, in partnership with Ellen Driscoll, in collaboration with Matt Hume, curated by Mary Miss/City as Living Lab, at Artpark
Right photo by Ellen Driscoll













Garden-wide Exhibition
June 11–October 23, 2022
bbg.org/forthebirds

Brooklyn Botanic Garden



collaboration

JOYCE HWANG (UB) + DARREN LEROUX (ACT PARKS) + MITCHELL WHITELAW (ANU)

[interdisciplinary researchers + government agency + academic institutions>>> Buffalo, USA + Canberra, Australia]









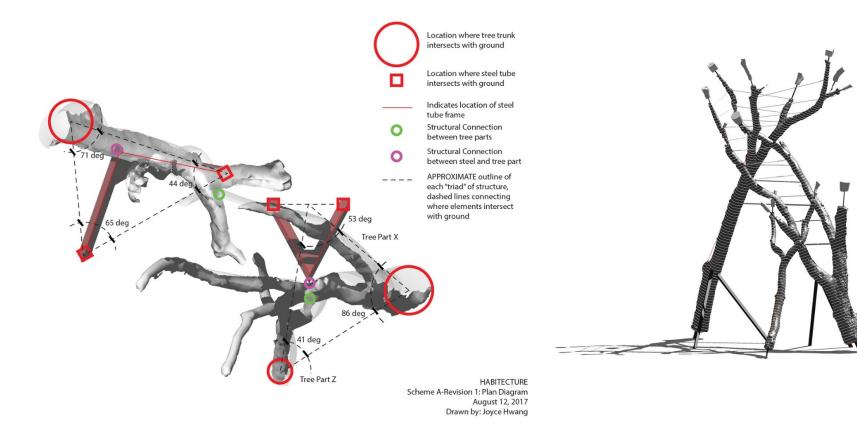












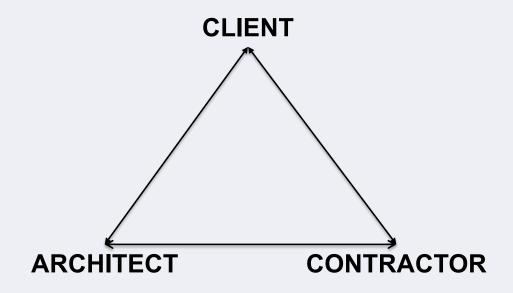




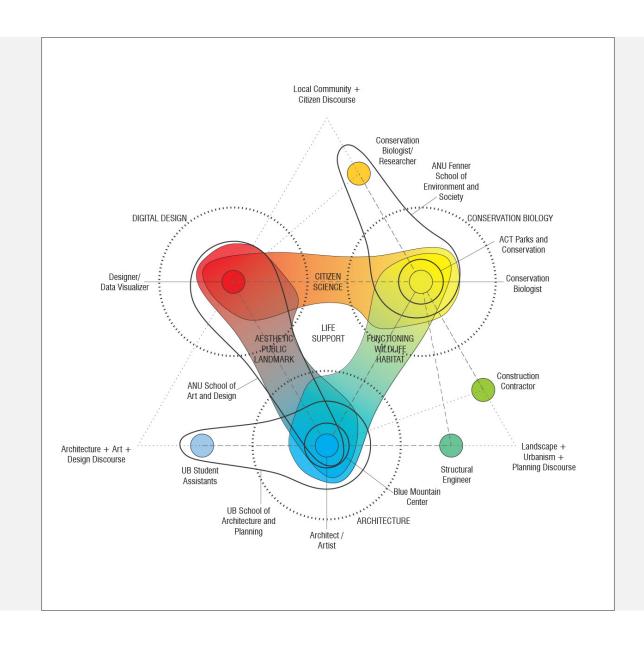




Life Support



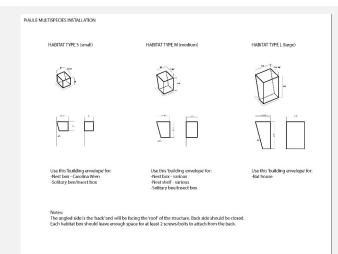
PROFESSIONAL PRACTICE TRIANGLE







Piaule Multispecies Habitats: Joyce Hwang in collaboration with Pratt MLA











Piaule Multispecies Habitats: Joyce Hwang in collaboration with Pratt MLA (Photos by Enmi Yang)





Piaule Multispecies Habitats: Joyce Hwang in collaboration with Pratt MLA

collaboration

ANTS OF THE PRAIRIE + UB ARCHITECTURE + EXHIBIT COLUMBUS/LANDMARK COLUMBUS +++

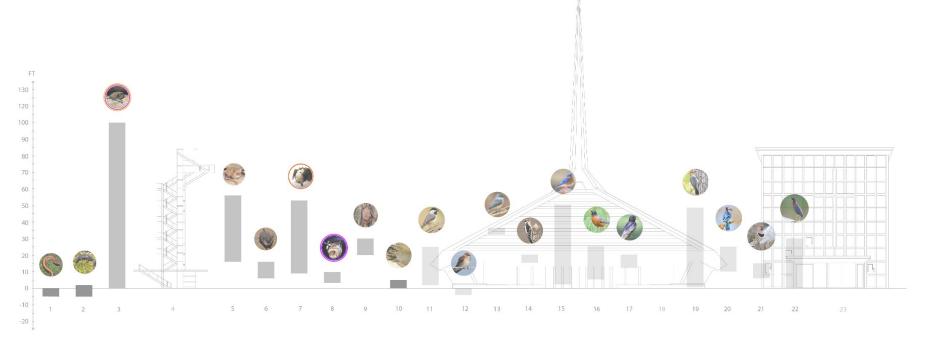
[architect/professor + academic/higher ed + arts organization]



Graphic by Jeremiah Chiu for Exhibit Columbus



To Middle Species, With Love: Exhibit Columbus 2021. Photo: Hadley Fruits



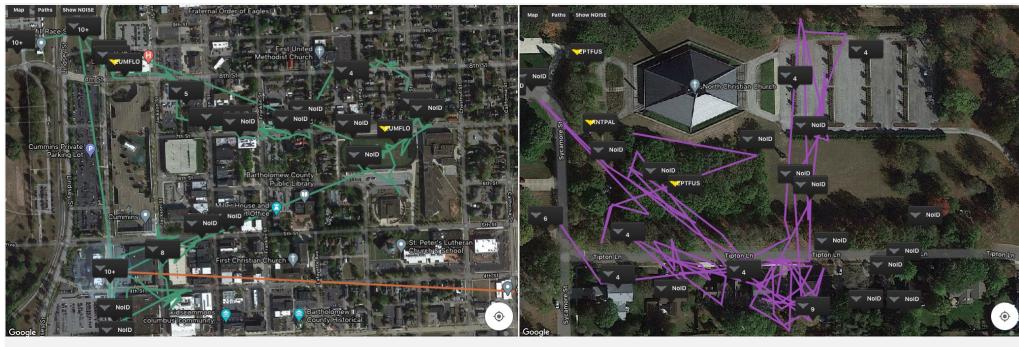
Name of Species & Architecture: From Left to Right

| 1 | Eastern Red-backed Salamander | 9 | Big Brown Bat | 17 | Purple Martin |
|---|----------------------------------|----|-------------------------------|----|------------------------|
| 2 | Jefferson Salamander | 10 | Softshell Turtles of Indiana | 18 | North Christian Church |
| 3 | Indiana Bat | 11 | Caroline Chickadee | 19 | Red-bellied Woodpecker |
| 4 | Mill Race Park Tower | 12 | Northern Rough-winged Swallow | 20 | Blue Jay |
| 5 | Tri-colored Bat | 13 | Tufted Titmouse | 21 | Northern Flicker |
| 6 | Grey Bat | 14 | Downy Woodpecker | 22 | Green Heron |
| 7 | Hoary Bat | 15 | Eastern Bluebird | 23 | First Christian Church |
| 8 | Northern Long Eared Bat | 16 | American Robin | | |

The graph portrays the variety of roosting height of bats and nesting and foraging range of salamanders, birds, and turtles. Iconic structures and architectures of Columbus, Indiana are also illustrated to understand the scale of activity undertaken in the world of nature.

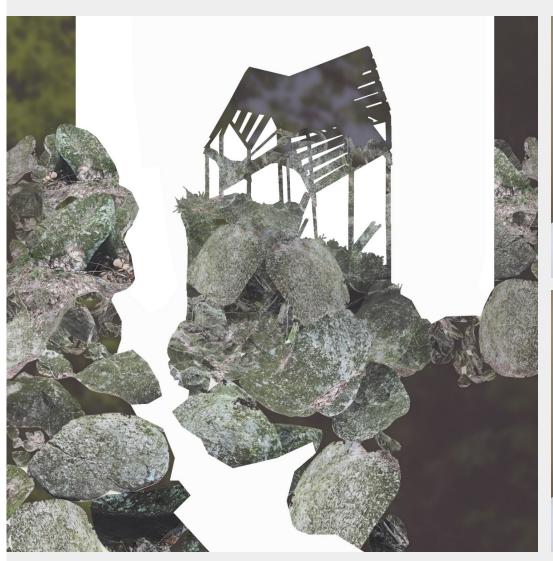
| Amphibians & Reptiles | O State Species of Special Concern |
|-----------------------|------------------------------------|
| Mammals - Bats | O Endangered Species |
| Birds | O State Endangered |
| | ○ Threaten |
| | |

iources: Moore. (2016). Biology, Arkansas State University ichaefer. (2017). Murray State University, Digitalcommons.murraystate.edu heCornellLab. All About Birds, allaboutbirds.org JS Fish and Wildlife Service. (2014), fws.gov



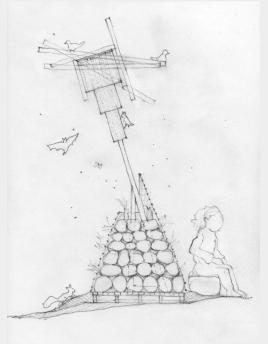










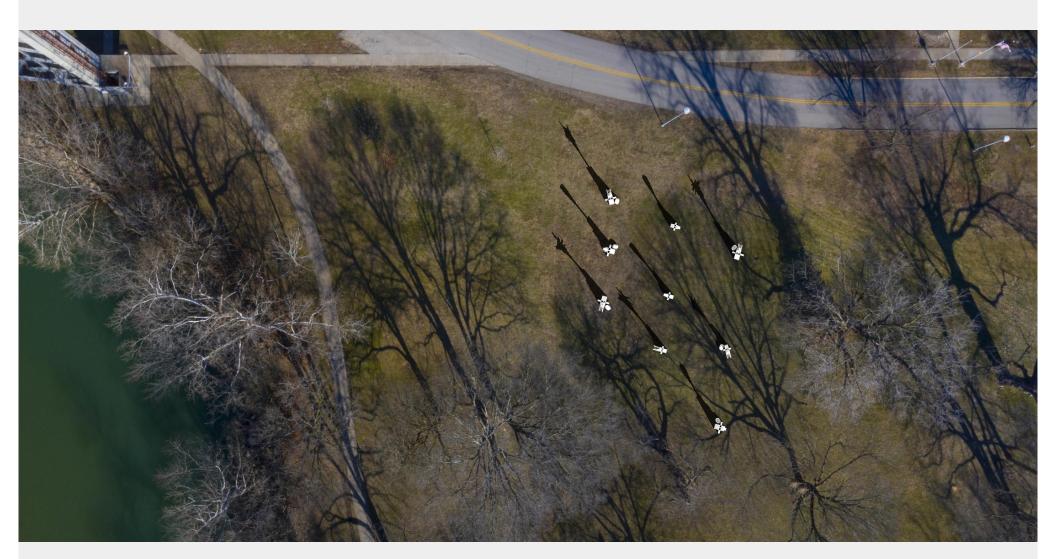












To Middle Species, With Love, for Exhibit Columbus







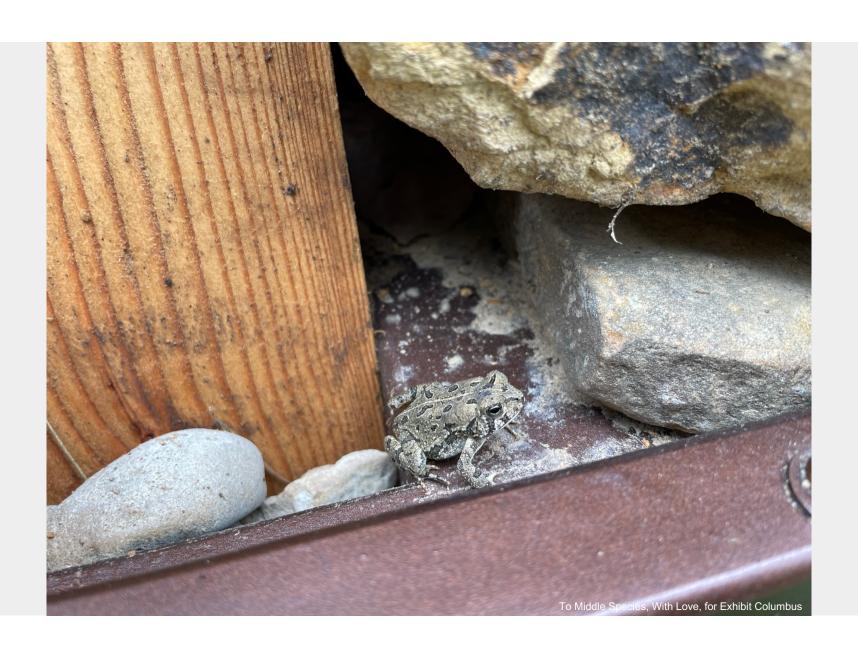






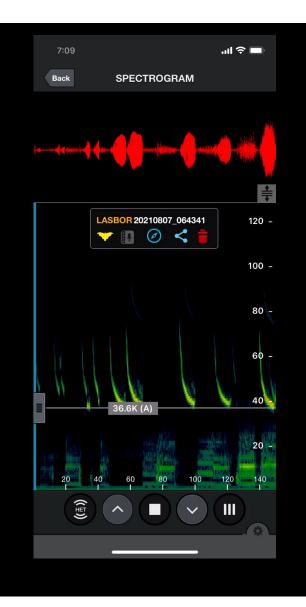
Photo: Hadley Fruits

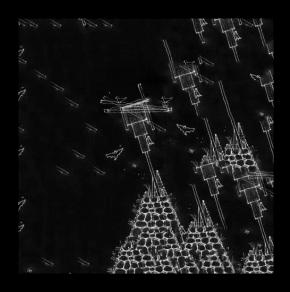


Photo: Hadley Fruits



Photo: David Schalliol







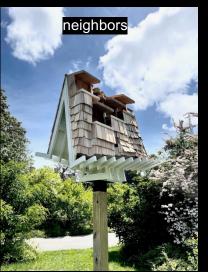




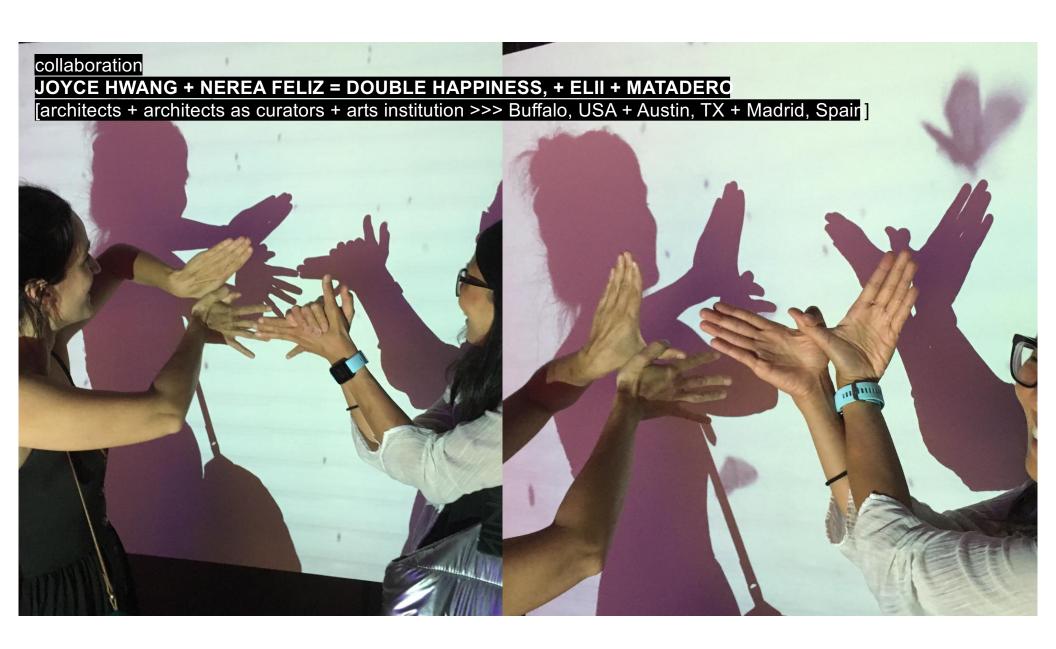












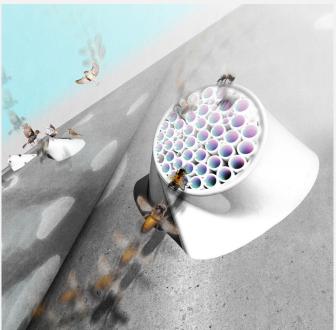


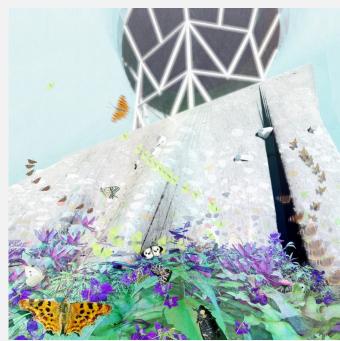






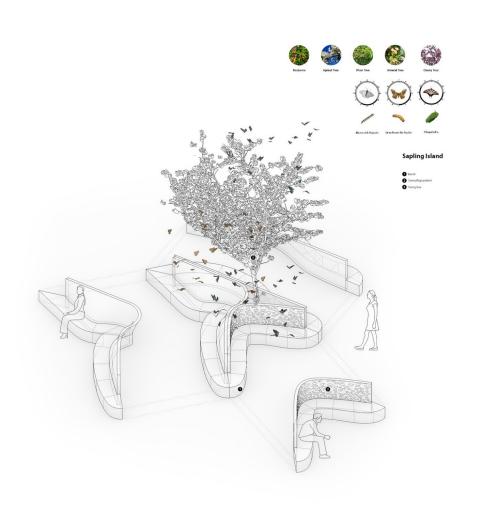




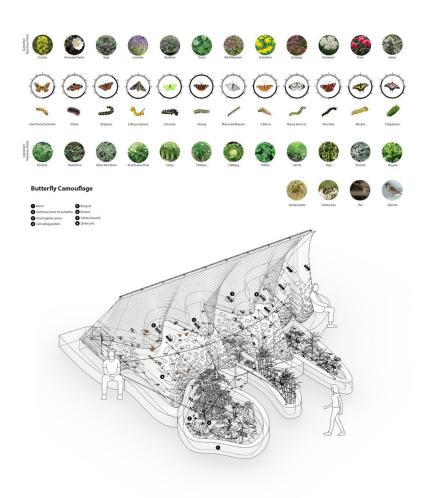




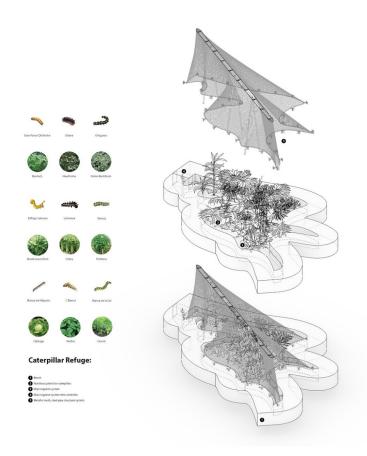




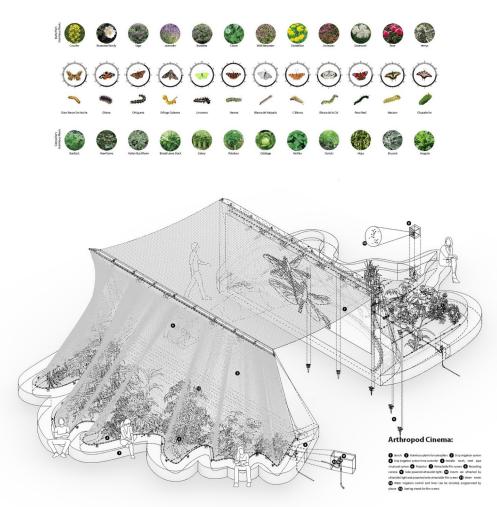




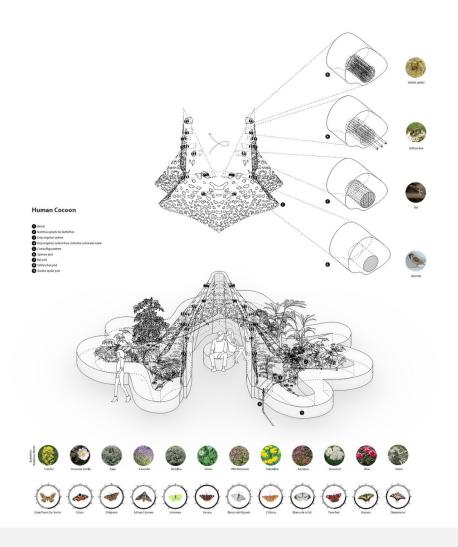




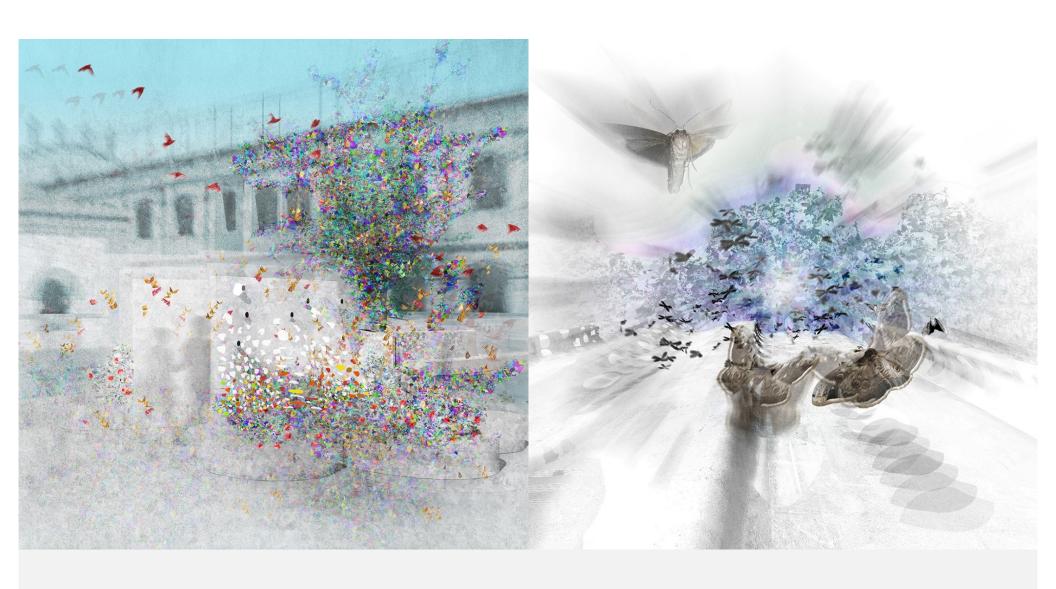








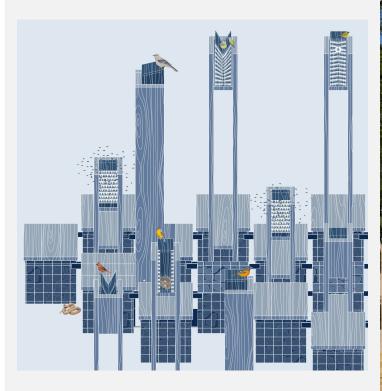




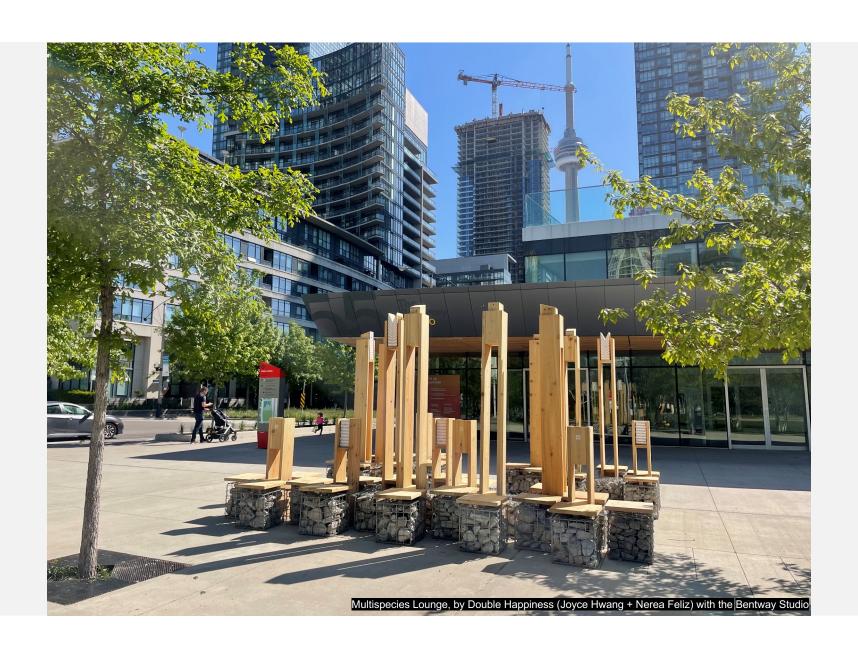
Hidden in Plain Sight, Cyborg Garden Exhibition, Matadero Madrid. By Double Happiness (Joyce Hwang + Nerea Feliz)

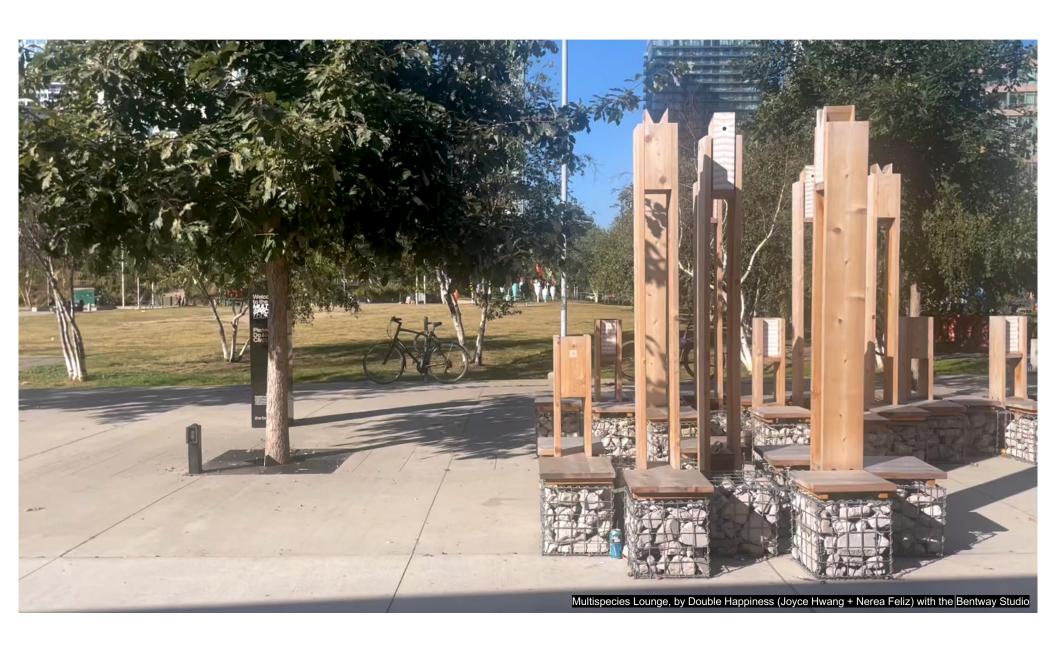


collaboration JOYCE HWANG + NEREA FELIZ = DOUBLE HAPPINESS + BENTWAY CONSERVANCY [architects + arts organization >>> Buffalo, USA + Austin, TX + Toronto, Canada]

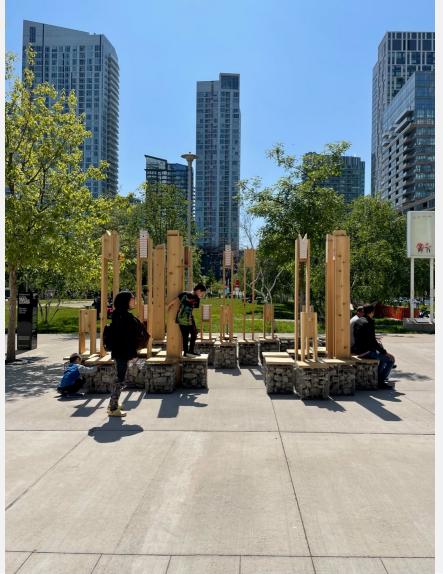


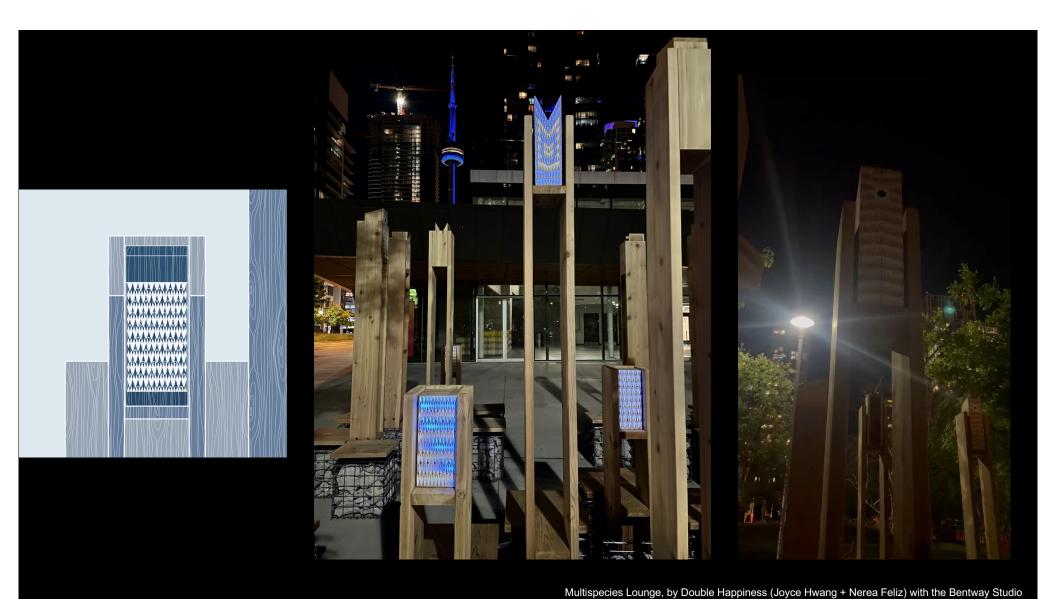


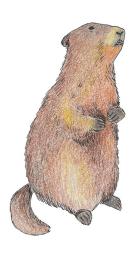


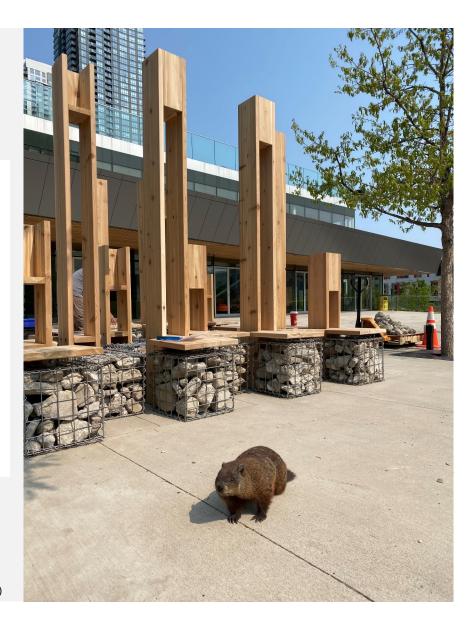








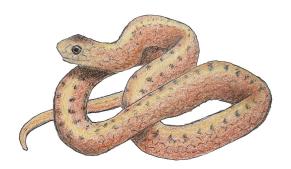


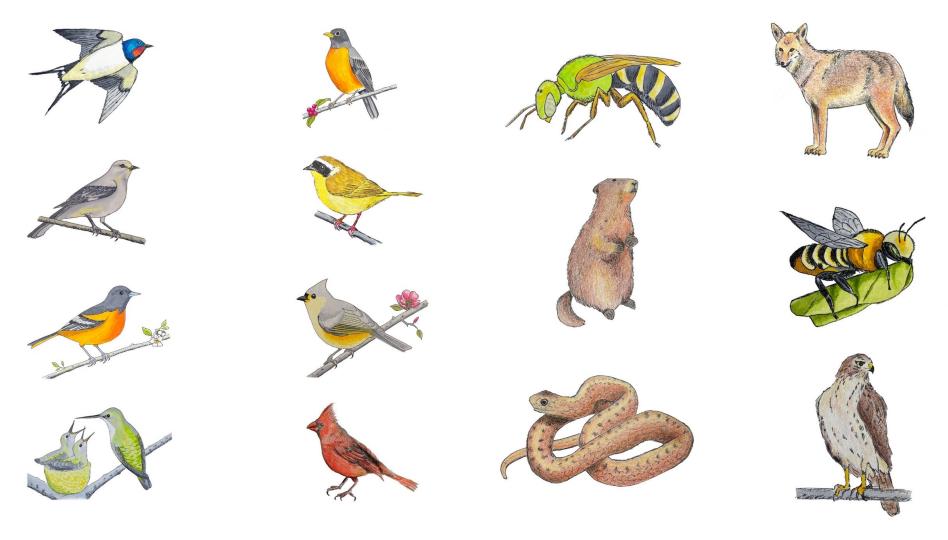


Multispecies Lounge (drawing on left by Alice Hwang, photo on right by Nerea Feliz)









Multispecies Lounge (drawings by Alice Hwang and Laurice Hwang)





Gates Wildlife Control













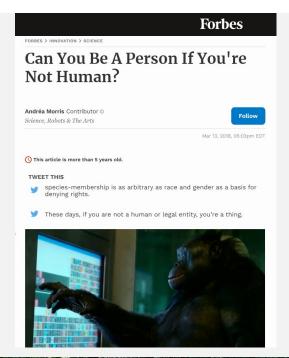
Birdhouses, Turkey, Ottoman Empire







Left: Auke-Florian Hiemstra with a nest. (Alexander Schippers/Naturalis) via Washington Post; Right: Photo by Auke-Florian Hiemstra via New York Times, July 2023







Left top: Article by Andrea Morris via Forbes (2018); Left bottom: Article by Lori Marino and photo by Gigi Glendinning via Aeon (2022); Right: Photo by AFP via BBC (2012)

INTERNATIONAL

A New Zealand River Now Has The Legal Rights Of A Human

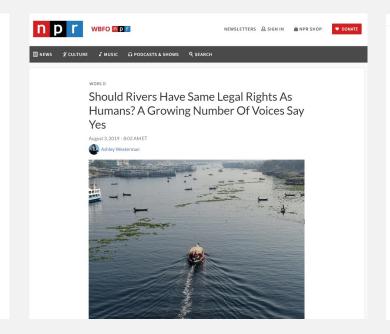
March 16, 2017 - 6:09 PM ET



Māori paddiers guide a boat down the Whanganul River in New Zealand, during a visit from Britain's Prince Harry in 2015 Chris Jackson/Getty Amages

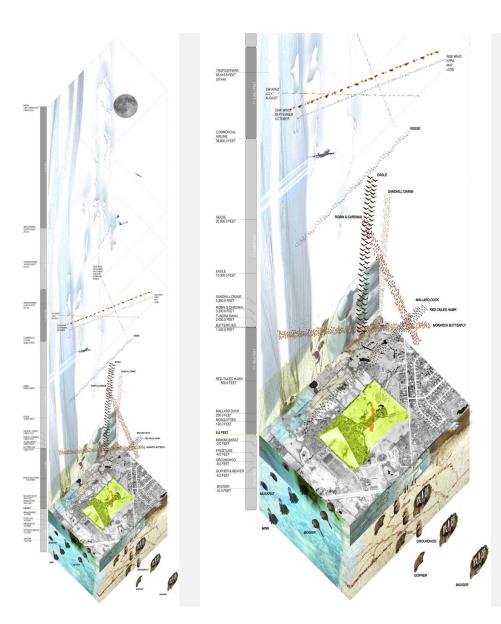
For the first time in New Zealand's history, the country's lawmakers have granted a river the legal rights of a human. The parliamentary vote Wednesday, which caps more than 140 years of legal struggles, ensures the roughly 90-mile Whanganui River will be represented by two guardians in legal matters that concern the waterway.

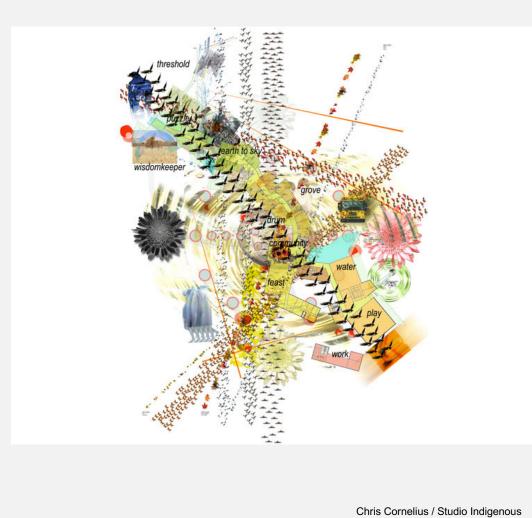
The legislation marks a monumental victory for the local Māori people, who





Left: Article by Colin Dwyer, photo by Chris Jackson/Getty Images via NPR (2017); Middle: Article by Ashley Westerman, photo by Munir Uz Zaman/AFP/Getty Images via NPR (2019); Right: Article by Choe Berge, photo by Marcia Kebbon/Nat Geo Image Collection (2022)











Worlds first robot citizen Sophia is calling for womens rights in Saudi Arabia



