Technical Rider - (ex)tending towards

Description:

(ex)tending towards gives form to human/forest alliances, and is driven by the following questions: what does it mean to be alive and have agency?, how can we re-train ourselves to slow down and listen to voices that have been marginalized for millennia?, and what sort of perceptual and mental shifts must occur in order to recognize and value the liveliness and precious vibrancy of individuals that do not share the same language nor temporal reality? In response to the temporal difference between tree and human individuals, this work explores ways to slow down human engagement, and to make visible the daily experience of a tree. The aim of the work is to find ways to demonstrate the absolute liveliness of the natural world and to initiate conversations about human/nature relations, and to inspire a sense of responsibility towards protecting and caring for it.

(ex)tending towards uses the live (or pre-recorded) data collected by the **Foresta-Inclusive** infrastructure to drive practically all aspects of the installation. The installation is comprised of two large visualizations, sculptural elements, four channel sound and a scent sculpture. The large horizontal visualization materializes the collected data as a particle flow field that gently undulates and is affected in real time by changing conditions in the forest. Inspired by tree rings as evidence of yearly experience, the visualization is structured in the same manner and visualizes the last 24hrs of the tree's life, where the outer ring shows contemporary values and each subsequent smaller ring the values from the previous hour. To interact with this visualization, there is a one-meter-tall cork cylinder that is also a scent sculpture, which releases the scent of geosmin (the scent of a forest after it rains) every time it rains in the forest. To interact, the participant uses a simple gestural interaction to move spatially into the visualization. The slower one moves, enables the participant to inspect each ring. The interface is embedded in soil, which also contain a set of sculptural sensor pods. Next to the horizontal visualization is a horizontal point cloud visualization of the tree that is being sensed, which is located at the **rare** Charitable Reserve in Ontario, Canada. The original point cloud was captured by a LIDAR scan of the forest at **rare** using a very large drone and rendered using Touch Designer. This point cloud is also affected in real time by the live data. Like the visuals, the sonic elements materialize the forest data in a generative sound experience that balances between mimicry and poetic memory of forest experience.

In its entirety this installation creates an embodied exploratory space where the deep time of a tree's life is remembered, and the human body is slowed down in the engagement. This work is the first in a series exploring ways of using technology as a tool to place human and non-human into a dialogical relationship, where both voices are equal despite perceived differences (temporal reality, im/mobility, non/verbal).

Installation Needs:

- 2 day installation time.
- Dedicated wifi Internet connection (10 mbps).
- 120/220 power - 1 circuit.
- 200 sq ft or 18.5 sq m exhibtion space (minimum).
- Projection wall painted projection grey.
- Light controlled.
- Ideally - location for installing soil and scent scuplture.

Jane Tingley
janetingley@gmail.com
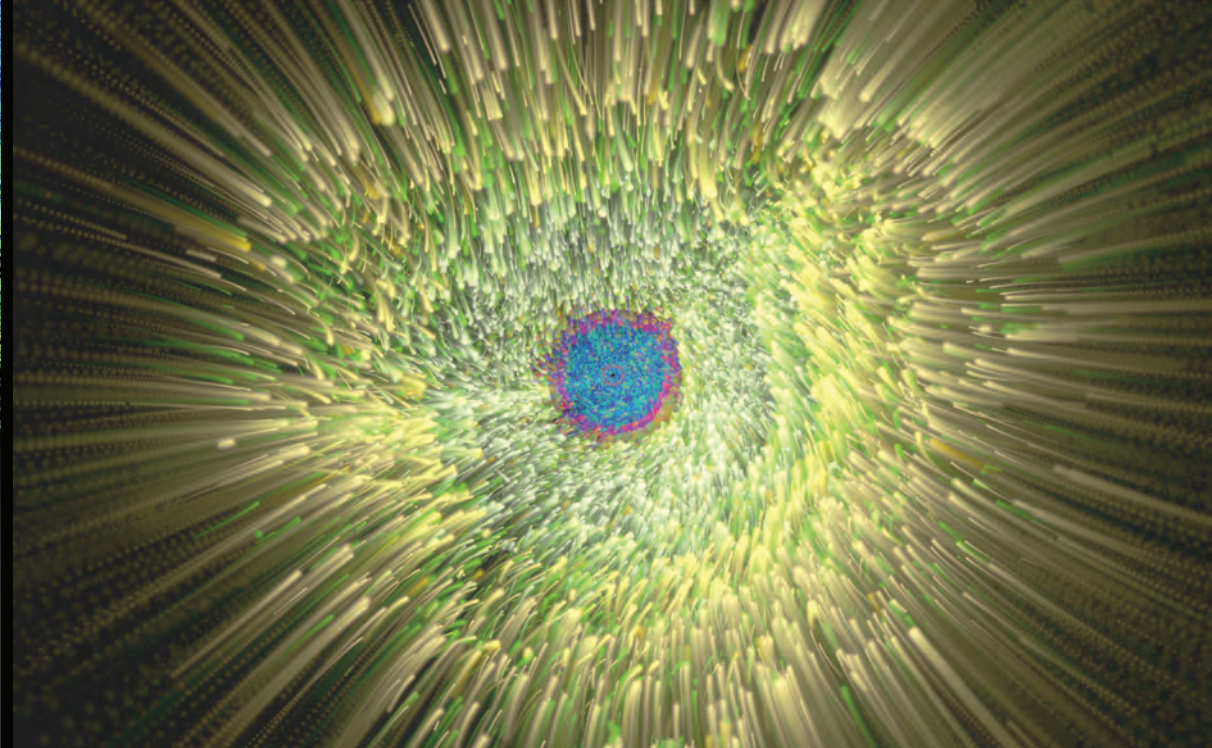**janetingley.com**
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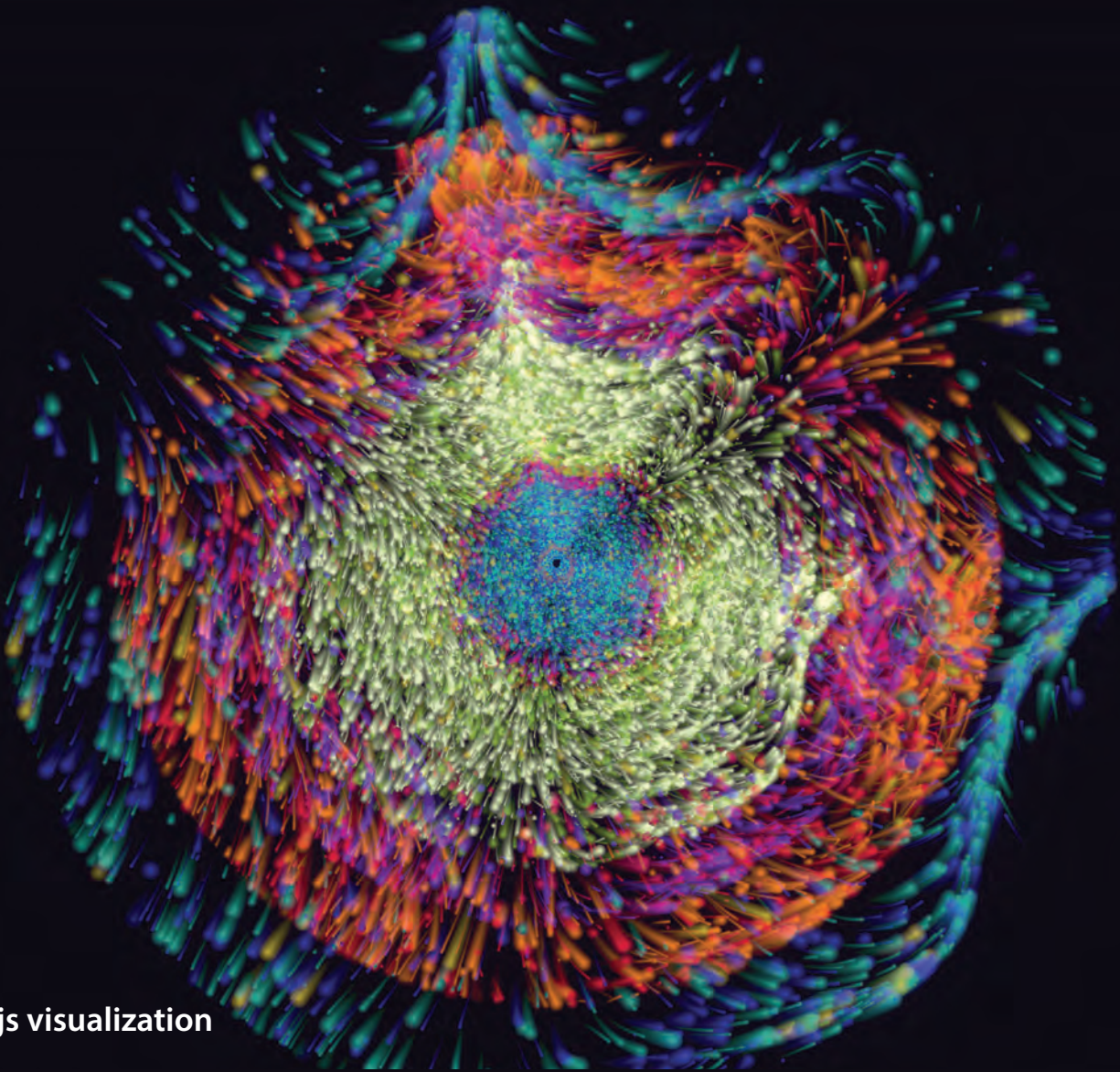
three.js visualization

This live projection visualizes 24 hrs of a trees life. This images light, wind, particulate matter, CO_2, VOCs, soil temp/humidity, rain, humidity and temperature in real time.

Packing List:

Item	Quantity	Description	Artist	Exhibition Centre
1	1	Mac Mini, keyboard, mouse	x	
2	1	Mac Studio, keyboard, mouse	x	
3	2	Projector: 4000-6000 lumens 1:1 - throw ratio		x
4	1	Scent sculpture/interface (12vdc)	x	
5	tbd	Soil (with protective plastic underlay)		x
6	3	Custom sculpture sensor pods	x	
7	3	Custom plinths (12vdc)	x	can be fabricated
8	1	Sound system - 4 speakers/ audio interface		x

Light 887
Wind 79
CO2 2340
VOC 295
Air Humidity 100
Air Temperature 18
Rain 4095
Particles (10) 0
Particles (5) 0
Particles (2.5) 2
Particles (1) 5
Particles (0.5) 31
Particles (0.3) 117
Soil Temperature 18
SoilMoisture 46.1

Point Cloud visualization and three.js visualization as projected

The above scent sculpture/touchless interface and 3 sensor pod sculptures will be embedded in soil. The scent sculpture releases the scent of geosmin everytime it rains in the forest.
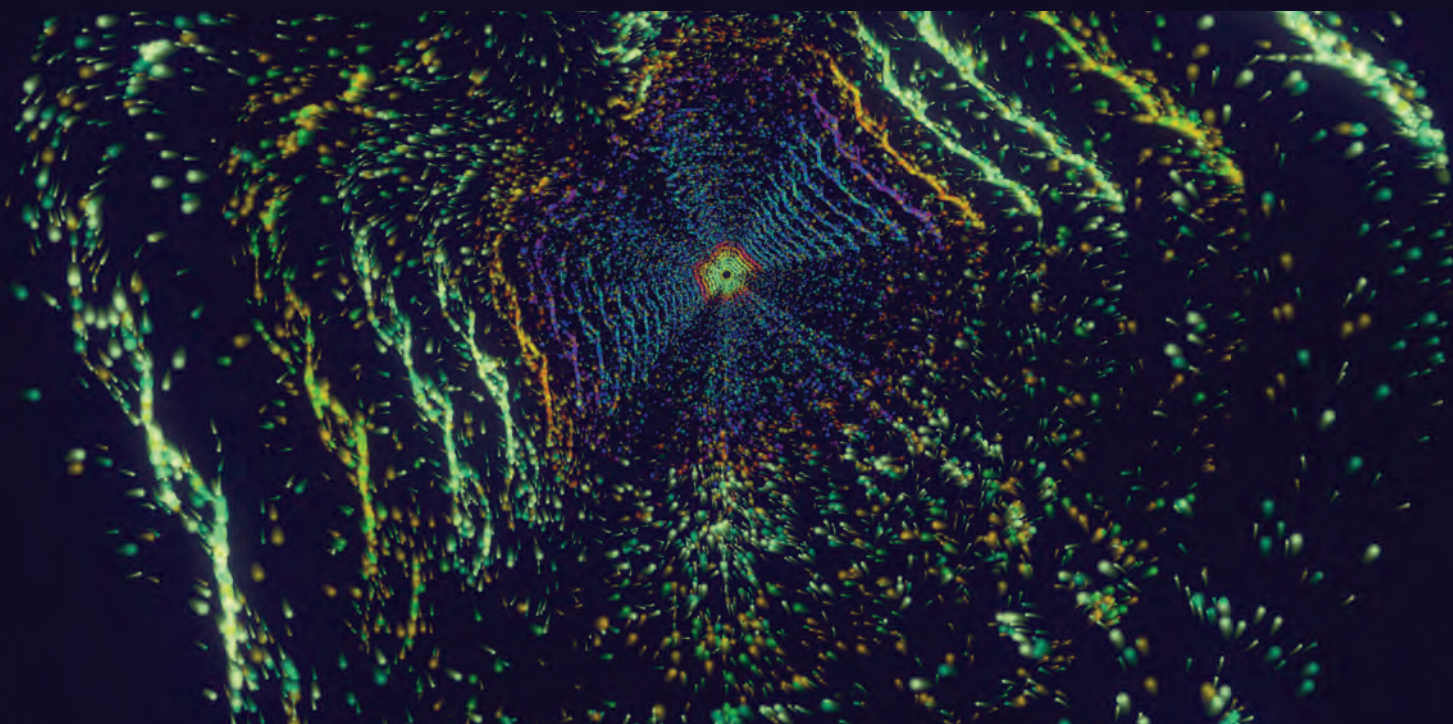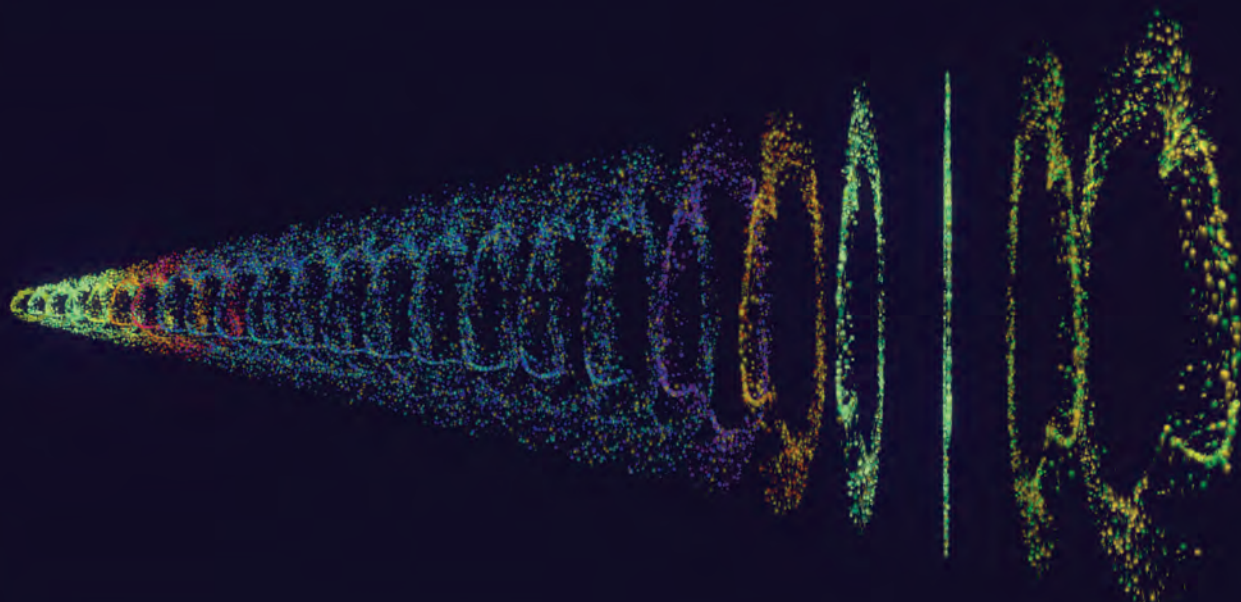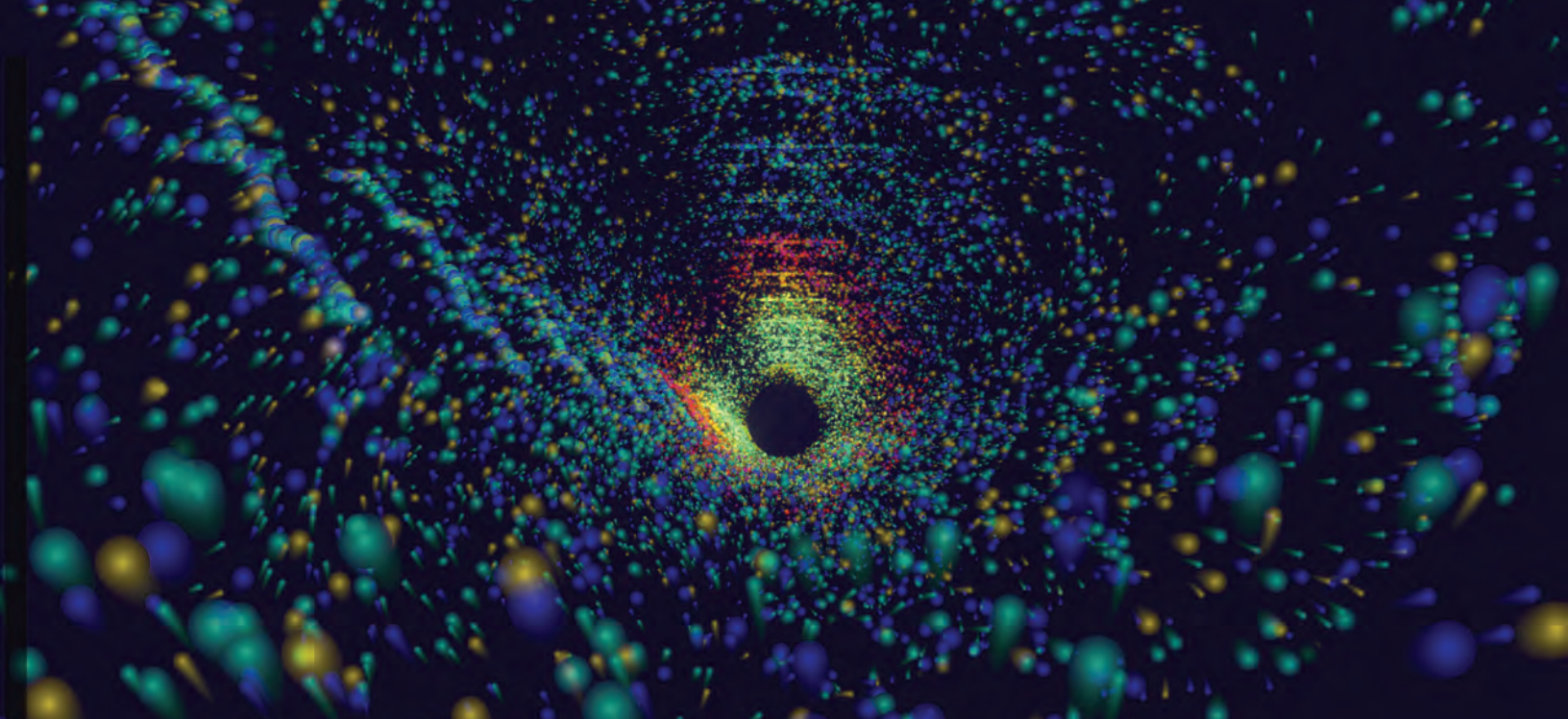
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Bio:

Jane Tingley is an artist, curator, director of the SLOlab: Sympoietic Living Ontologies Lab and Associate Professor at York University in Canada. Her studio work combines traditional studio practice with new media tools - and spans responsive/interactive installation, performative robotics, and telematically connected distributed sculptures/installations. Her works is interdisciplinary in nature and explores the creation of spaces and experiences that push the boundaries between science and magic, interactivity and playfulness, and offer an experience to the viewer that is accessible both intellectually and technologically. Using distributed technologies, her current work investigates the hidden complexity found in the natural world and explores the deep interconnections between the human and non-human relationships. As a curator her interests lie at the intersection art, science, and technology with a special interest in experiential works and embodiment. Recent exhibitions include Hedonistika (2014) at the Musée d'art contemporain (Mtl, CA), INTERACTION (2016) and Agents for Change (2020) at the MUSEUM in Kitchener (ON, CA), and more-than-human at Onsite Gallery in Toronto (CA). As an artist she has participated in exhibitions and festivals in the Americas, the Middle East, Asia, and Europe - including translife - International Triennial of Media Art at the National Art Museum of China, Beijing, Gallerie Le Deco in Tokyo (JP), Elektra Festival in Montréal(CA) and the Künstlerhause in Vienna (AT). She received the Kenneth Finkelstein Prize in Sculpture in Manitoba, the first prize in the iNTERFACES – Interactive Art Competition in Porto, Portugal.

Credits:

Faadhi Fauzi: Three.js
Ilze (Kavi) Briede: 3D modelling and Touch Designer
Hrysovalanti Maheras: Collaboration on Sound Design
Dr Derek Robinson, Modelling and Spatial Analysis Lab, University of Waterloo, ON. CA: Drone and Lidar scanning.
rare Charitable Reserve, Cambridge, ON. CA.

Marius Kintel: Firmware support.
An Vu: Pod hardware duplication
Grace Grothaus: Photogrammetry

Financial Support:

YORK U
UNIVERSITÉ
UNIVERSITY

Social Sciences and Humanities
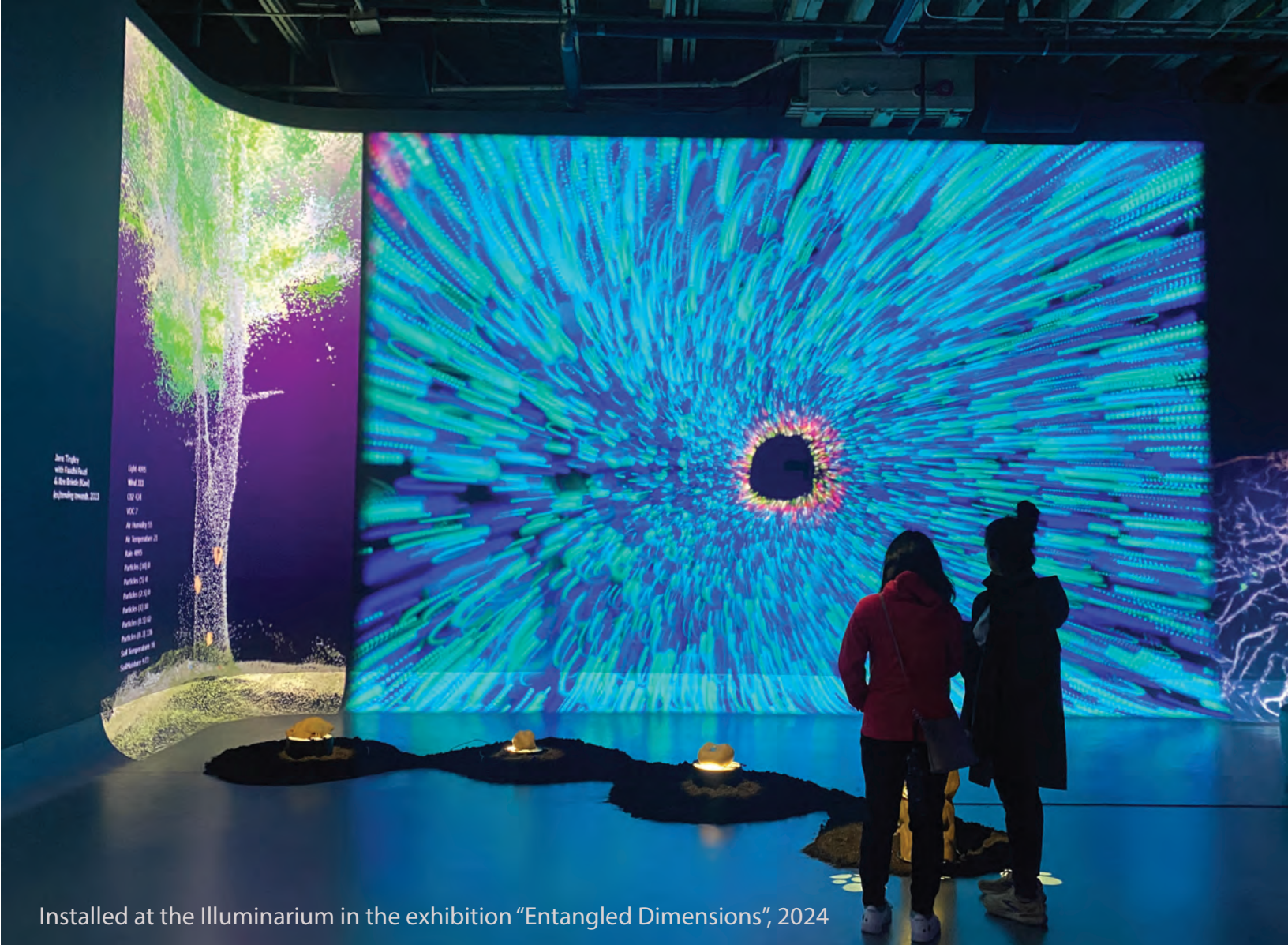Research Council of Canada

Conseil de recherches en
sciences humaines du Canada

Canada

Exhibition installed in more-than-human at ONSITE Gallery, Toronto, ON. 2023

Installed at the Illuminarium in the exhibition "Entangled Dimensions", 2024

Installed at Ottawa School of Art Gallery Orleans, 2024