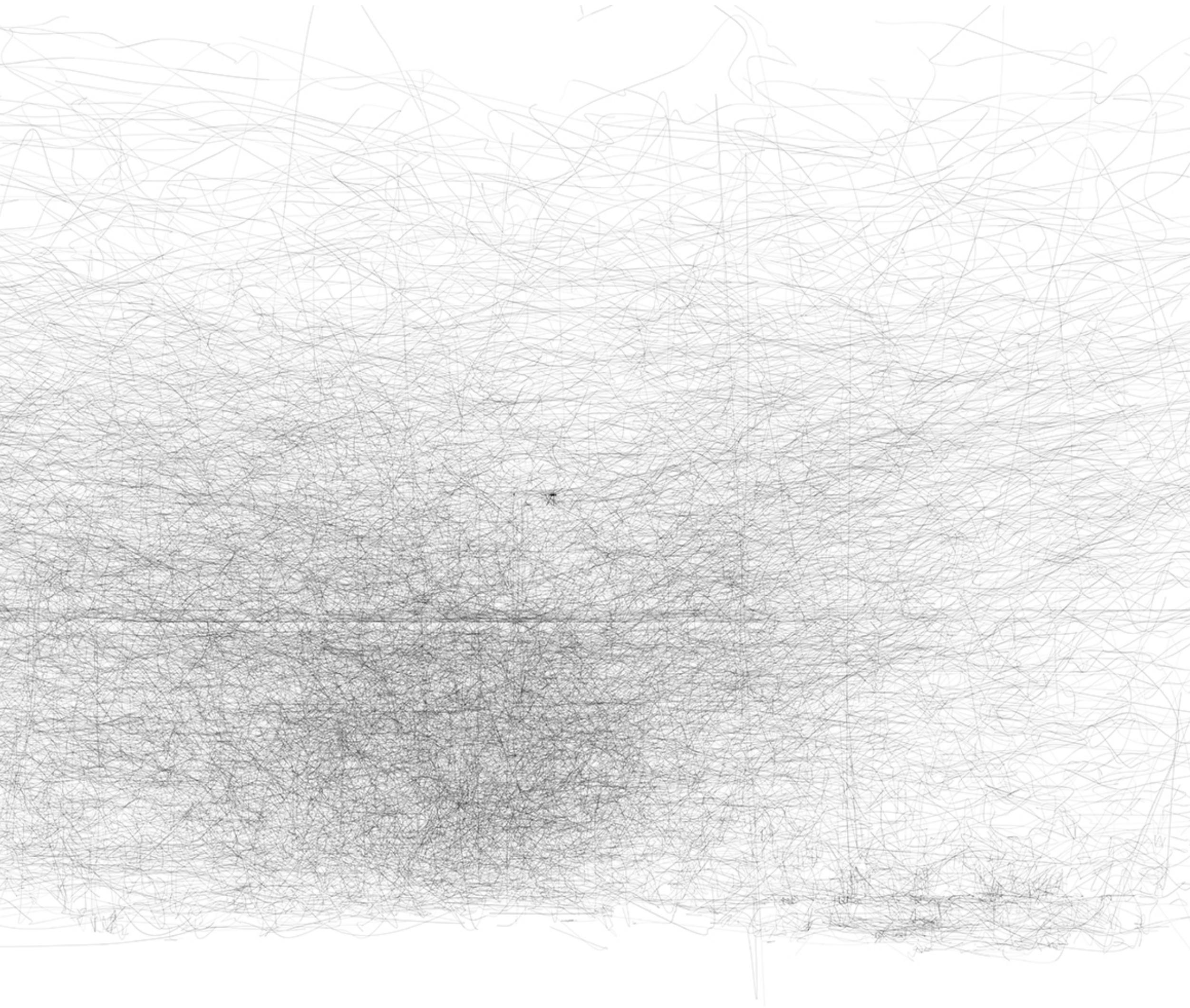
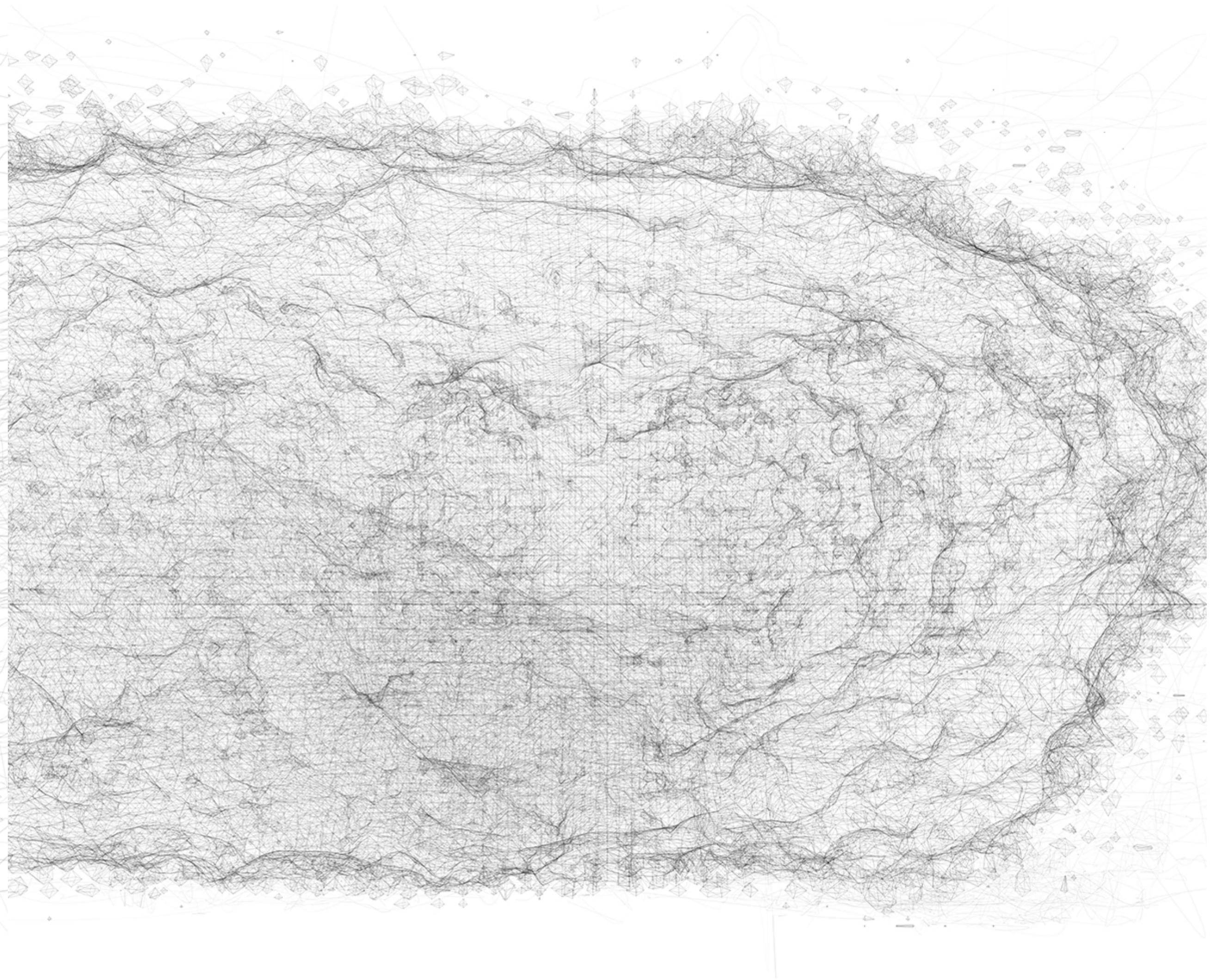


Data Visualization and Software Art

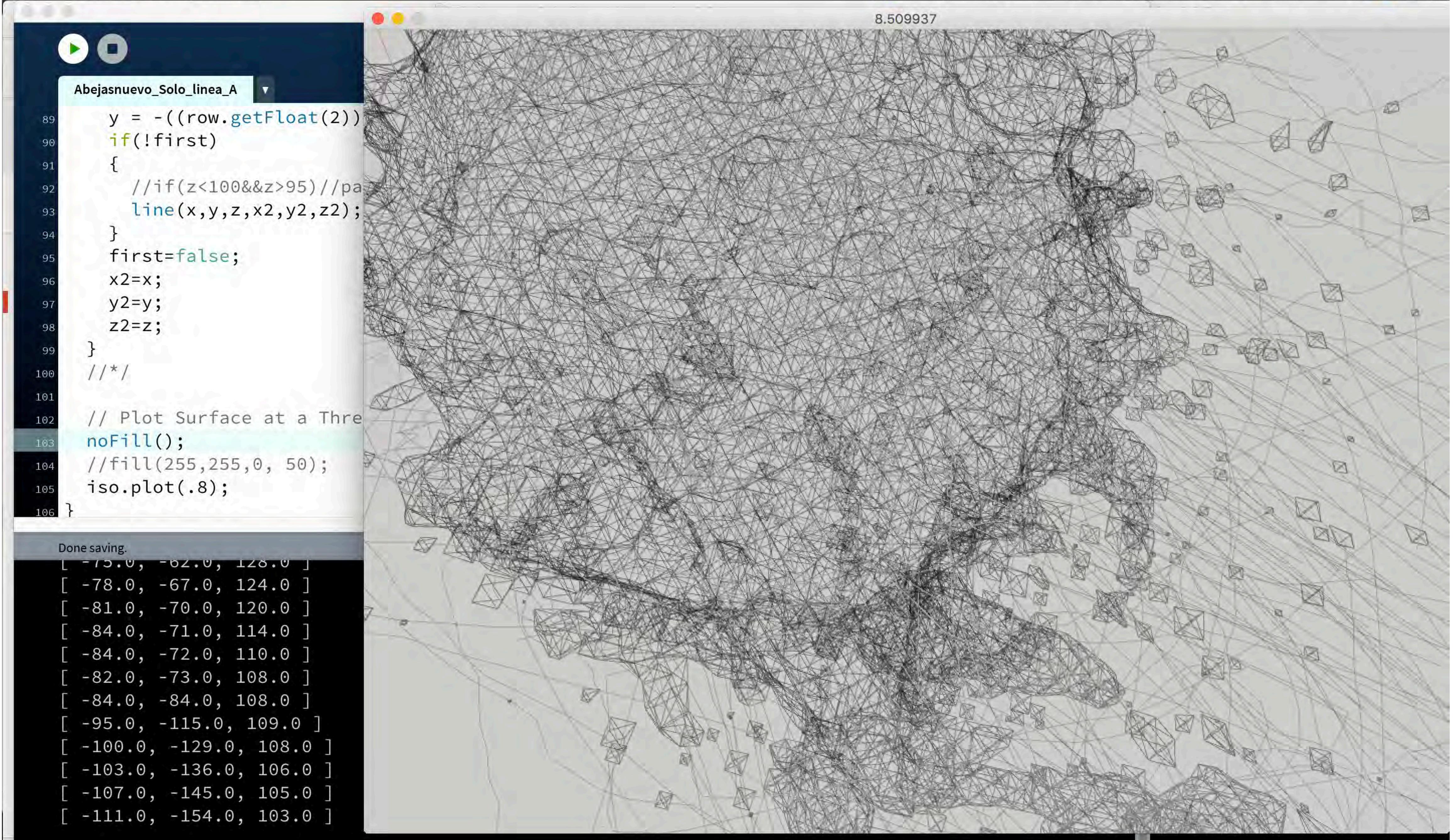
Carola Dreidemie 2024



C5_Bee_opposite6

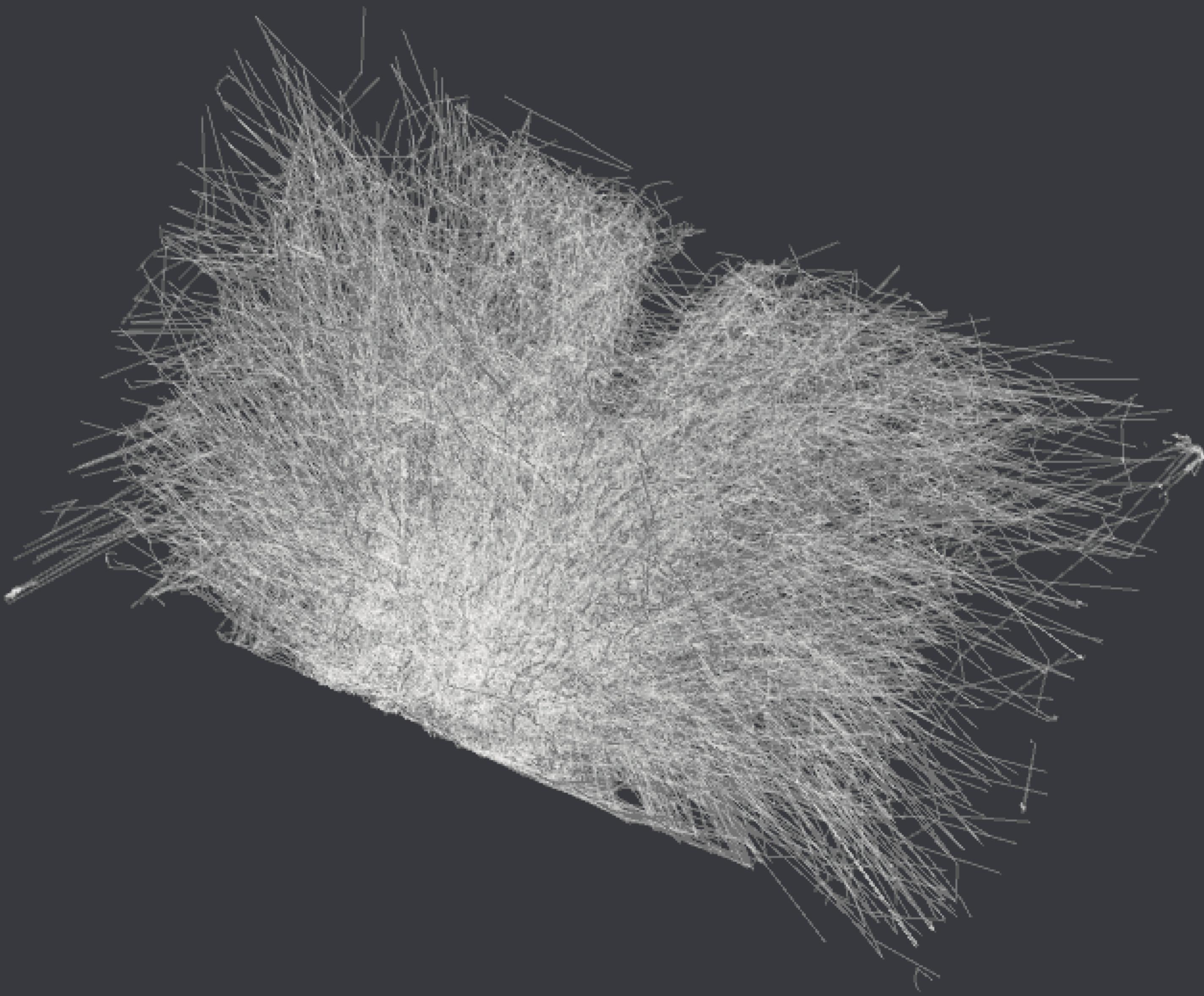


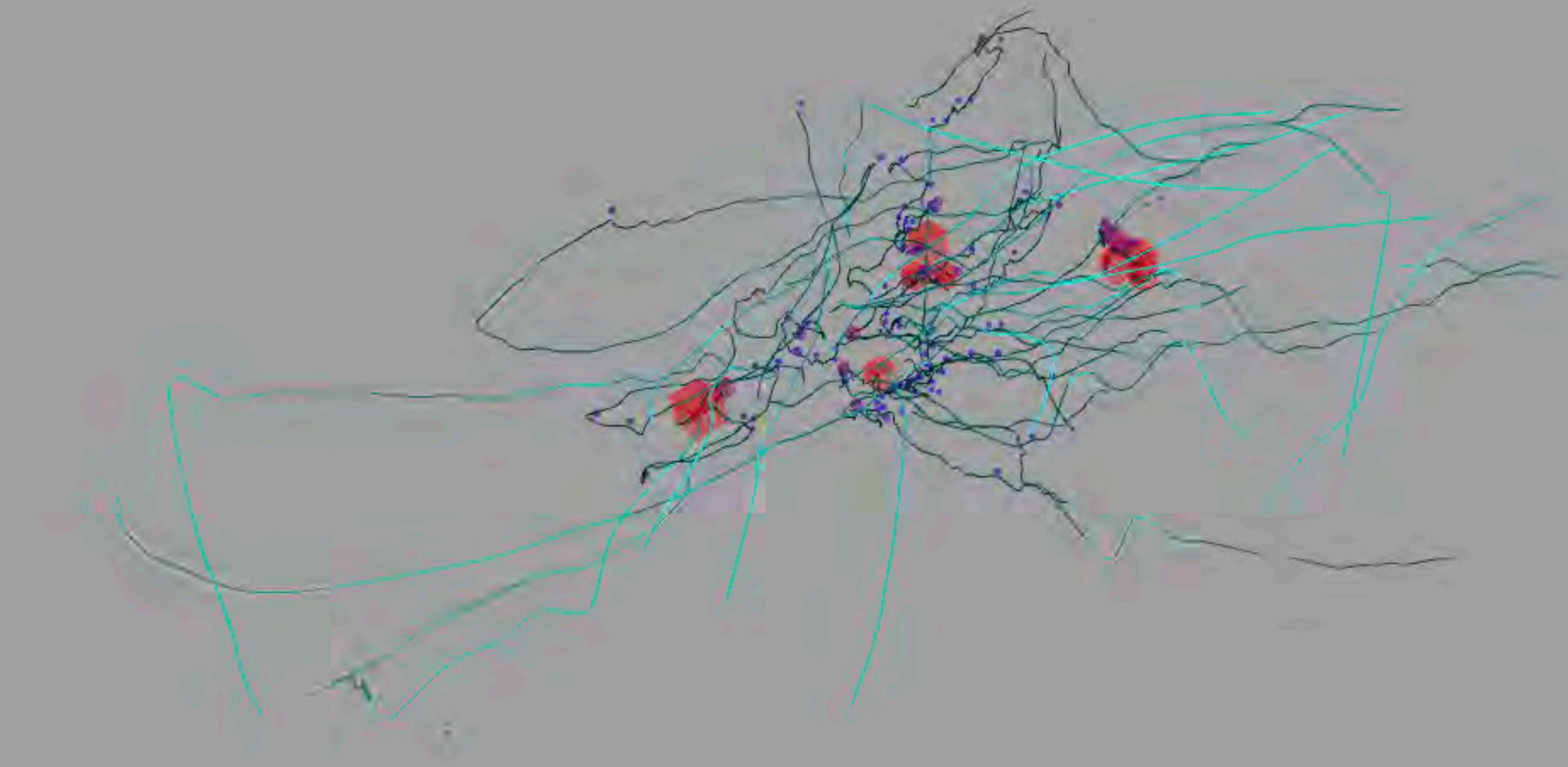
C5_Bee_opposite5



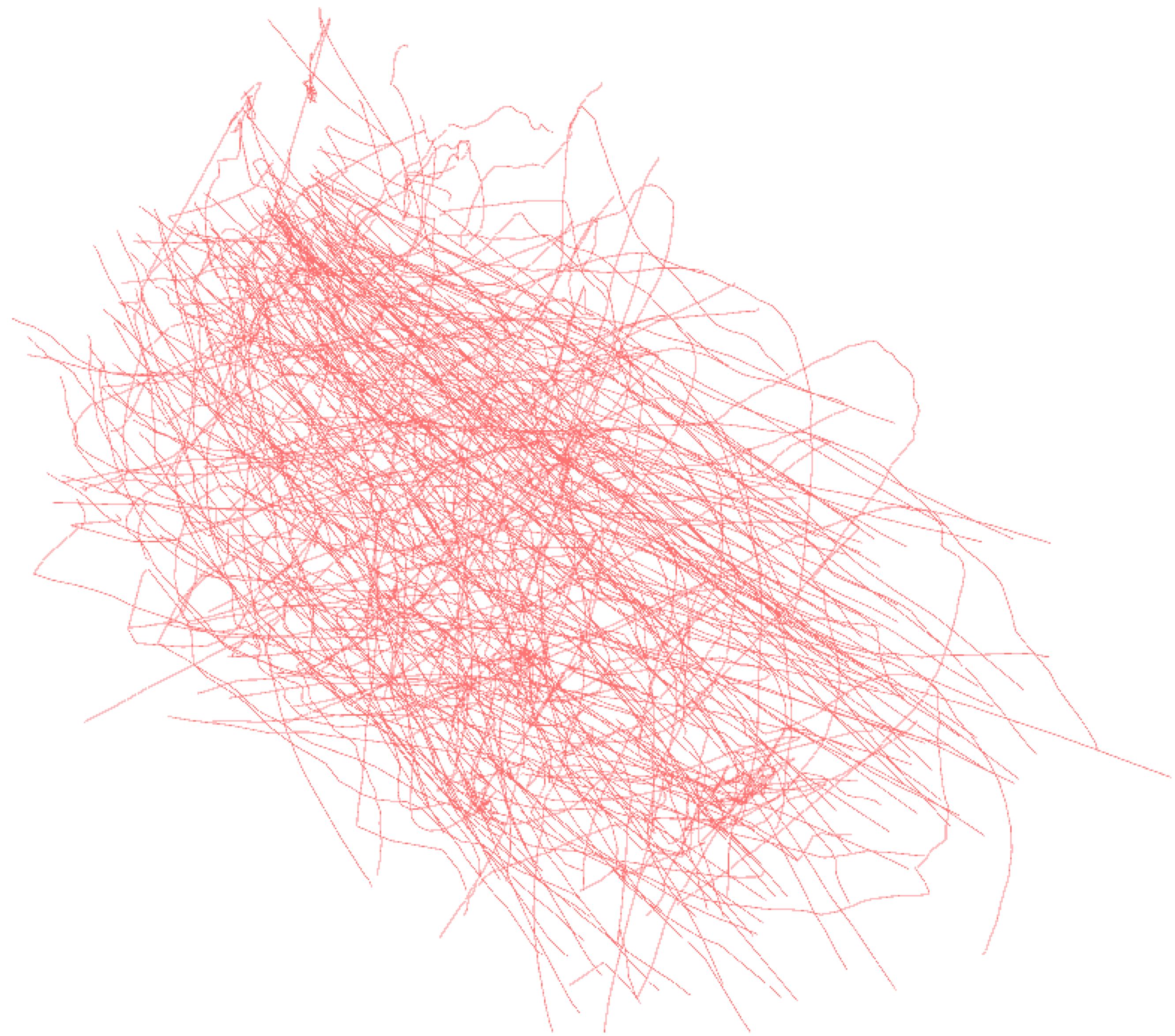


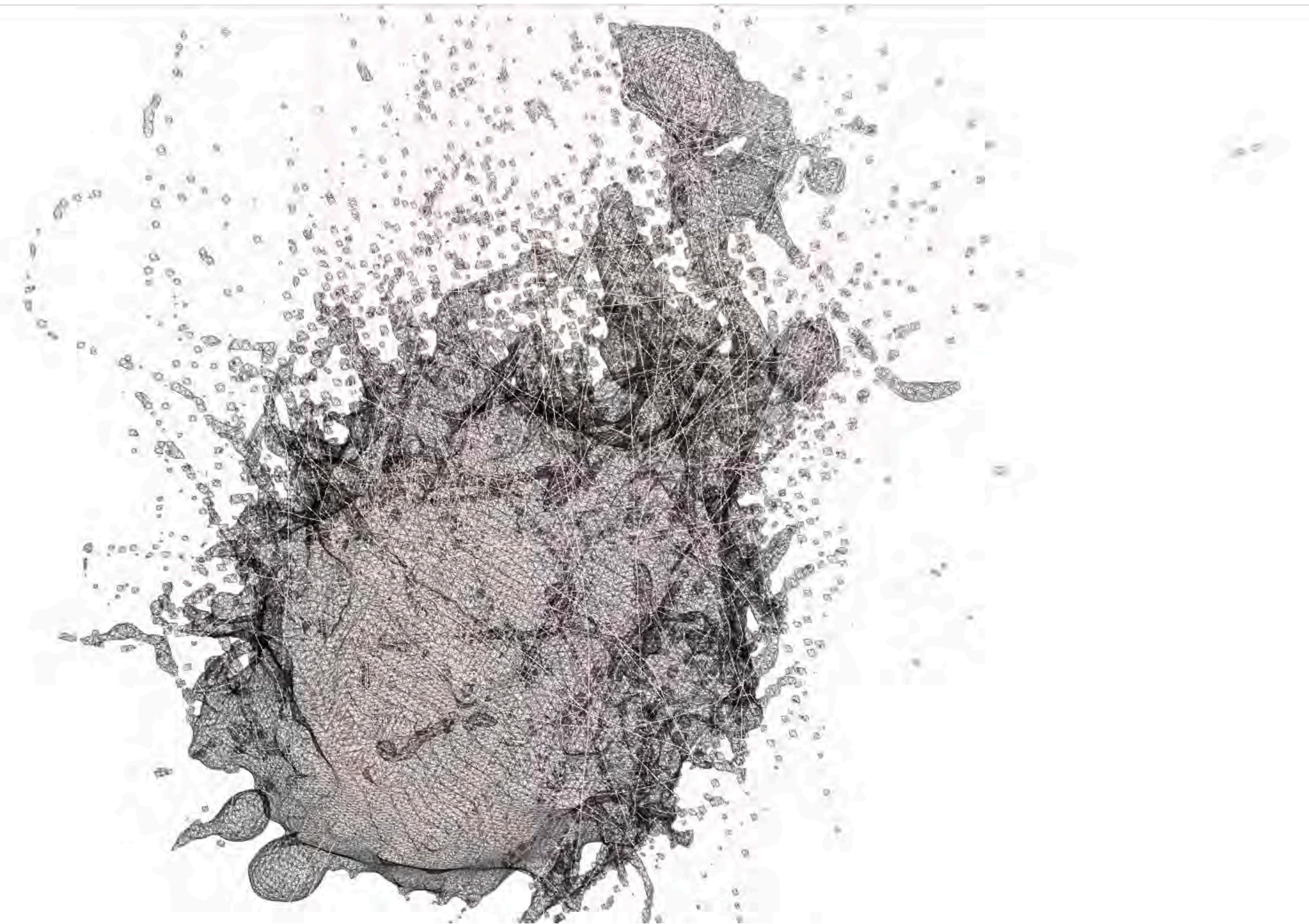


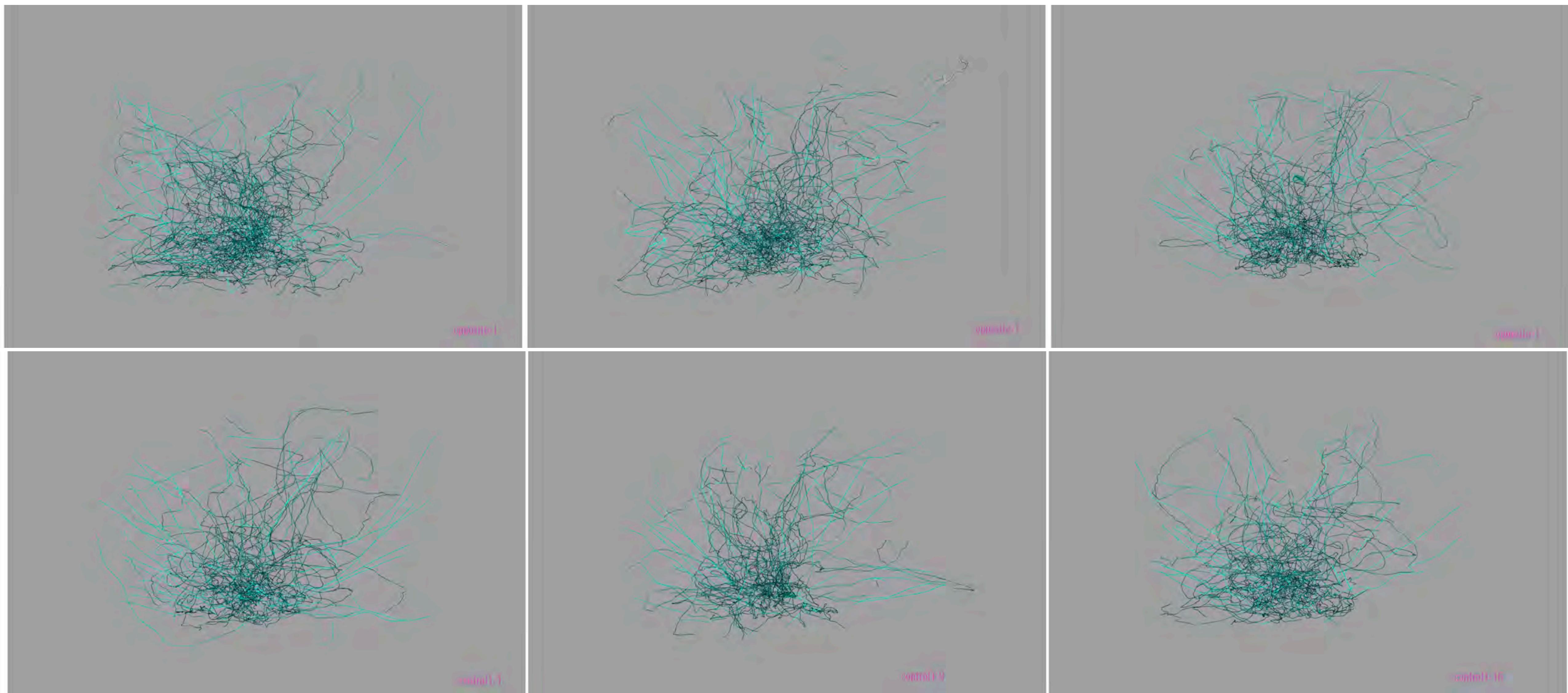




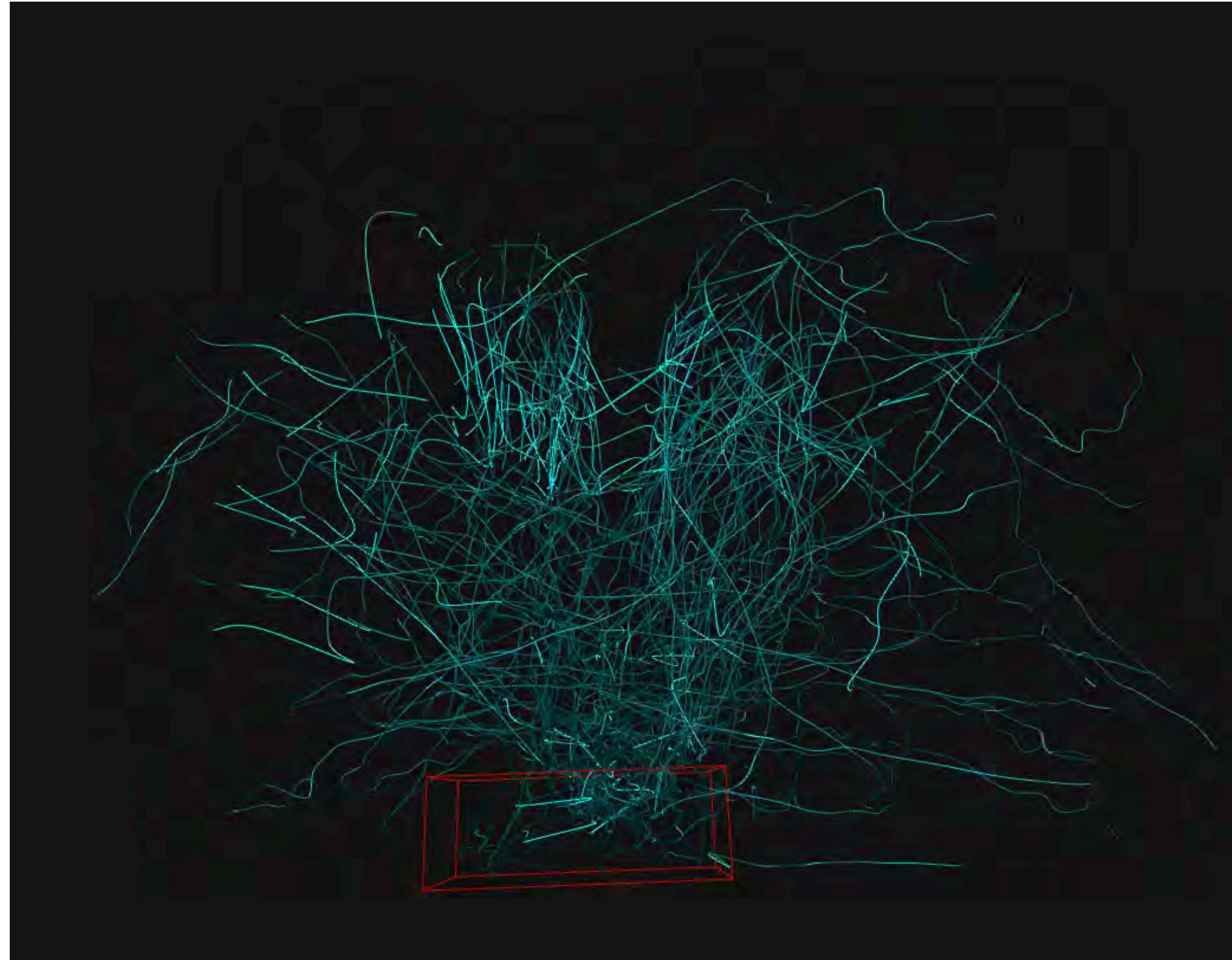
Color value relative to speed of flight
Red areas show flight concentration in time & space



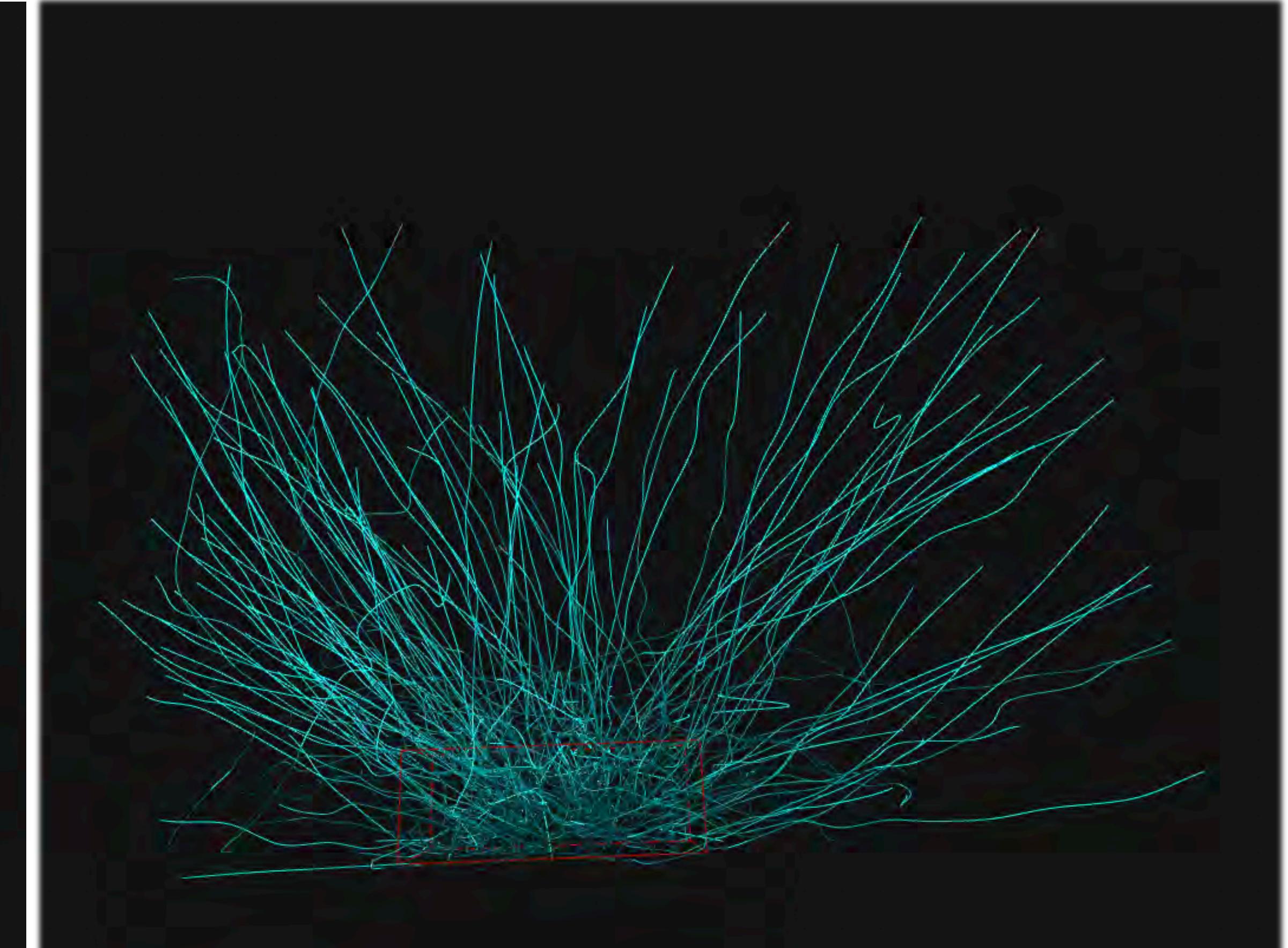




Visual Analysis in Bee flights:



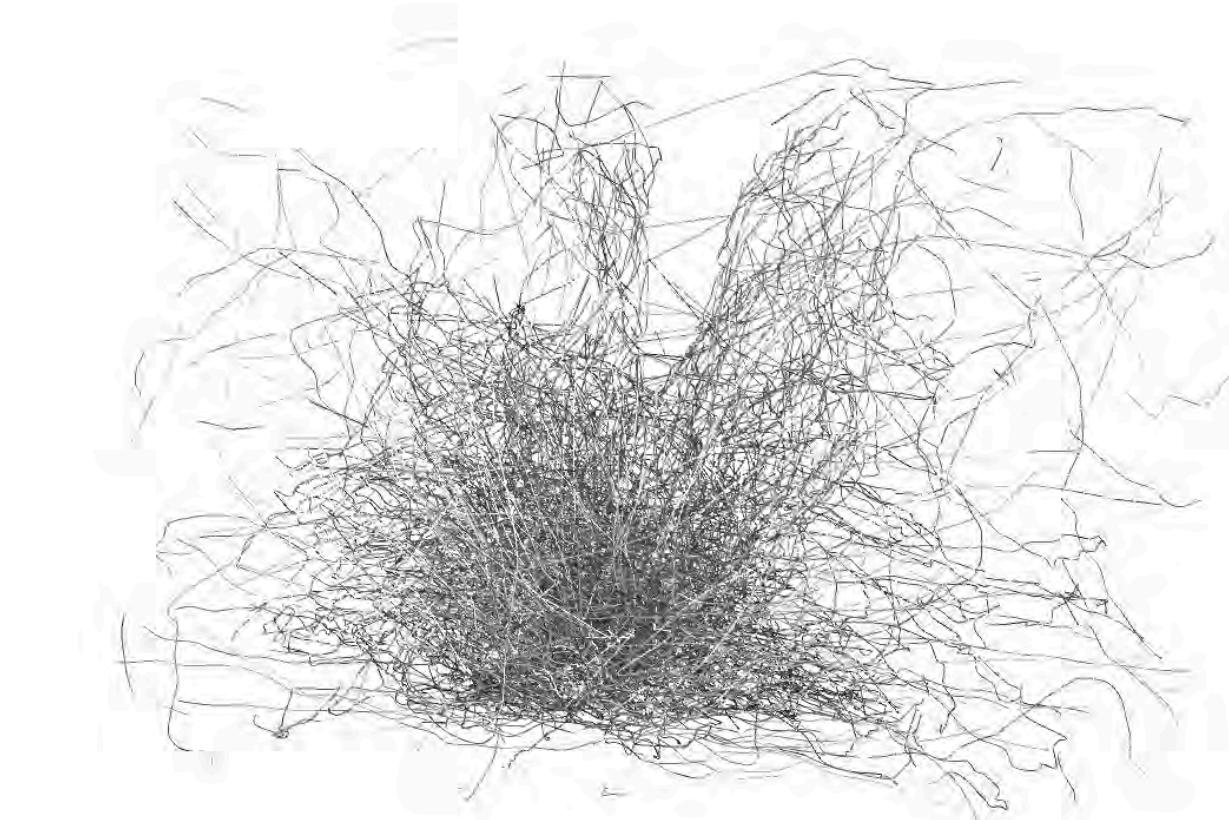
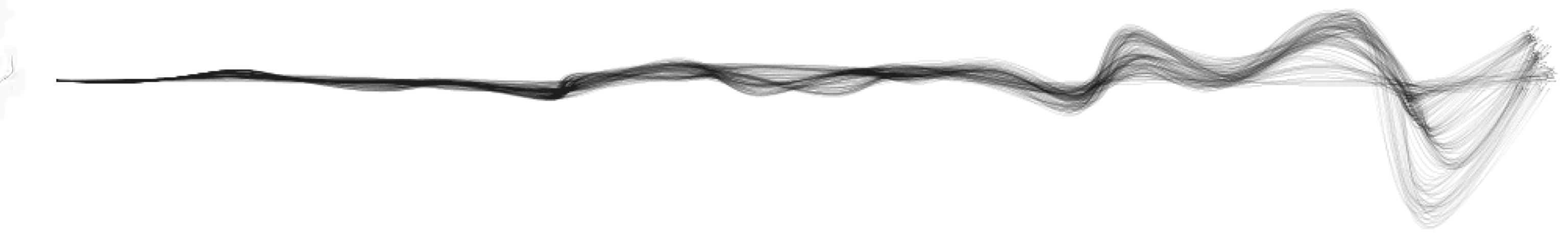
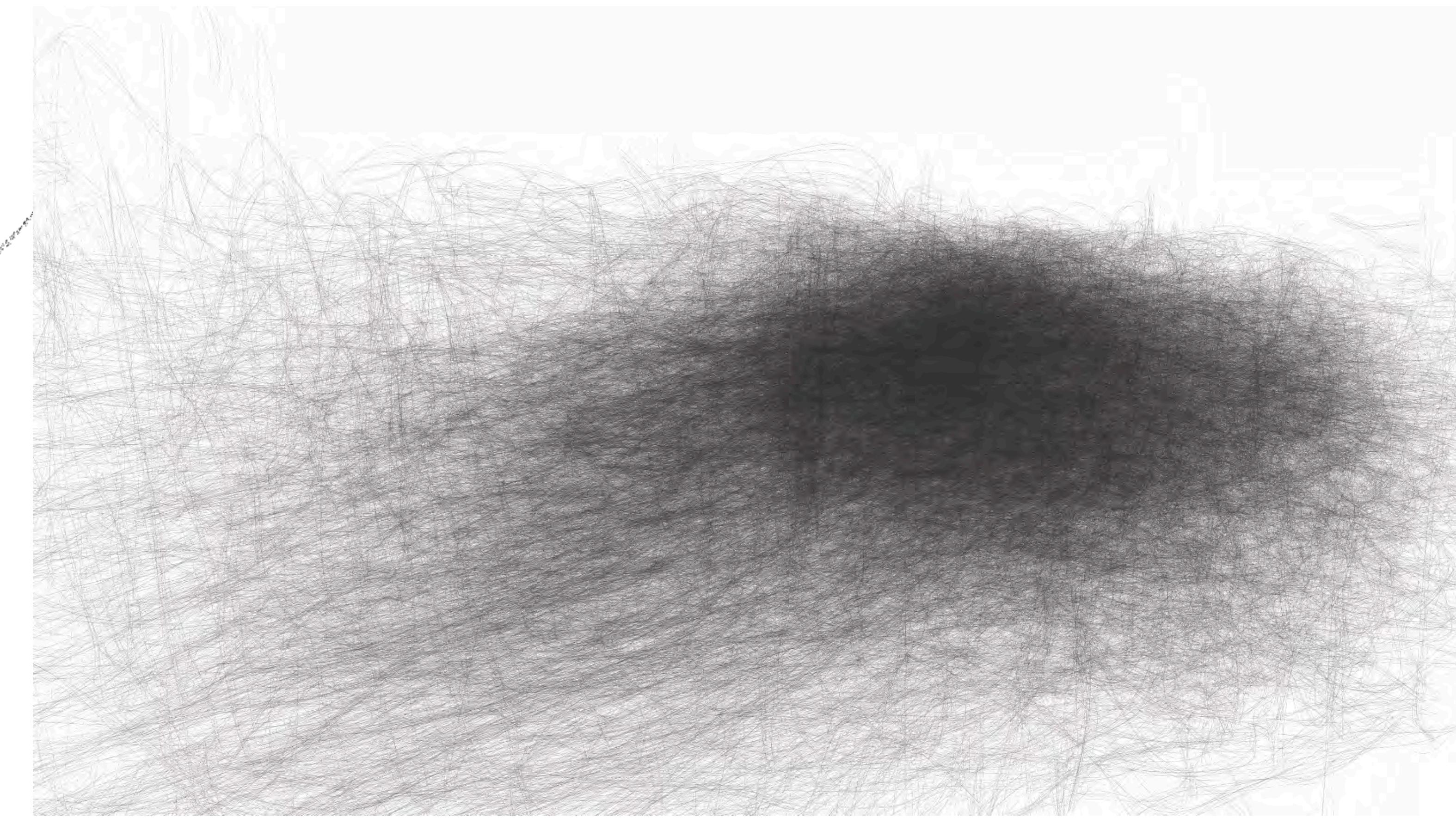
Incoming flight trajectories



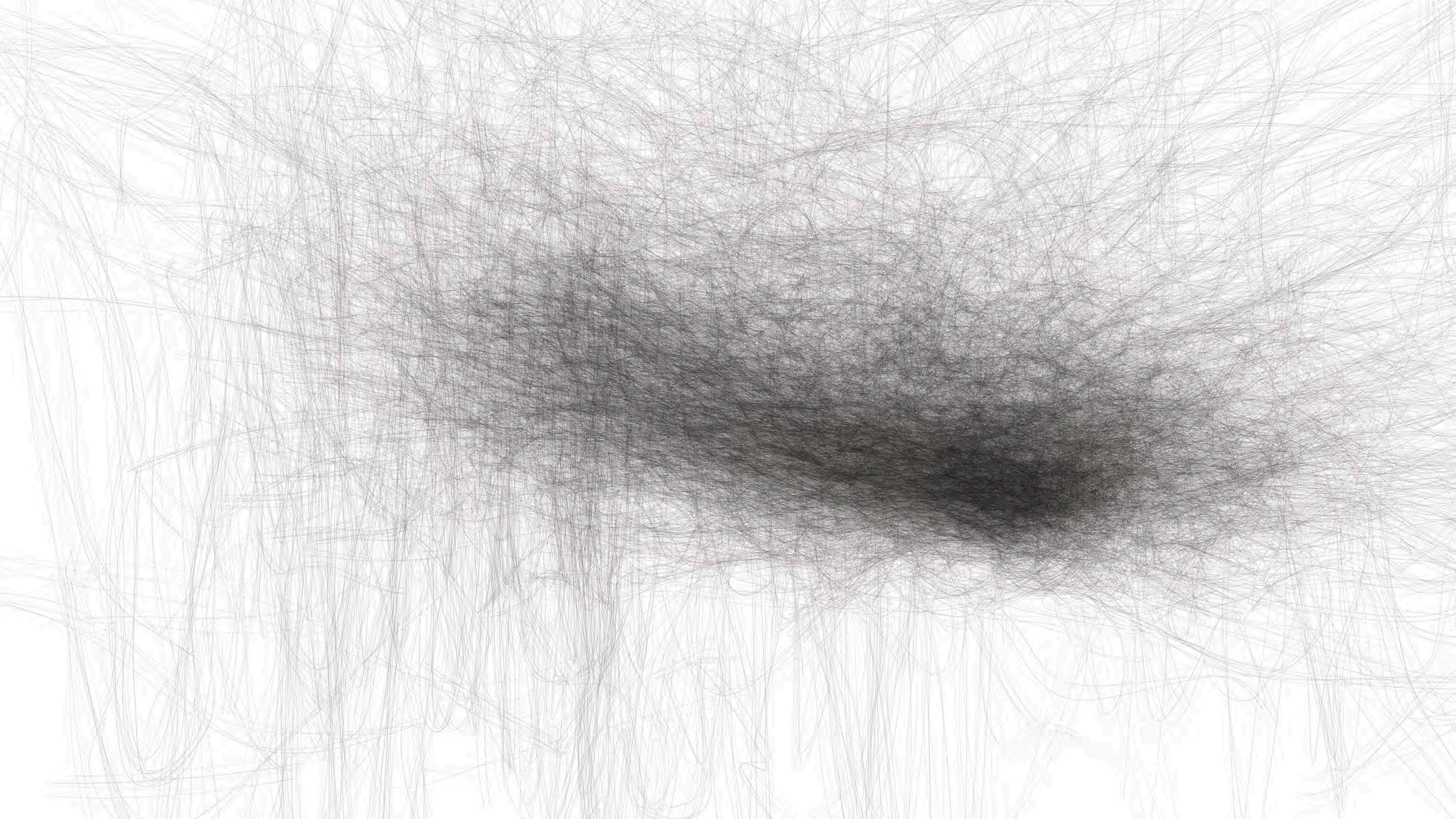
Outgoing flight trajectories

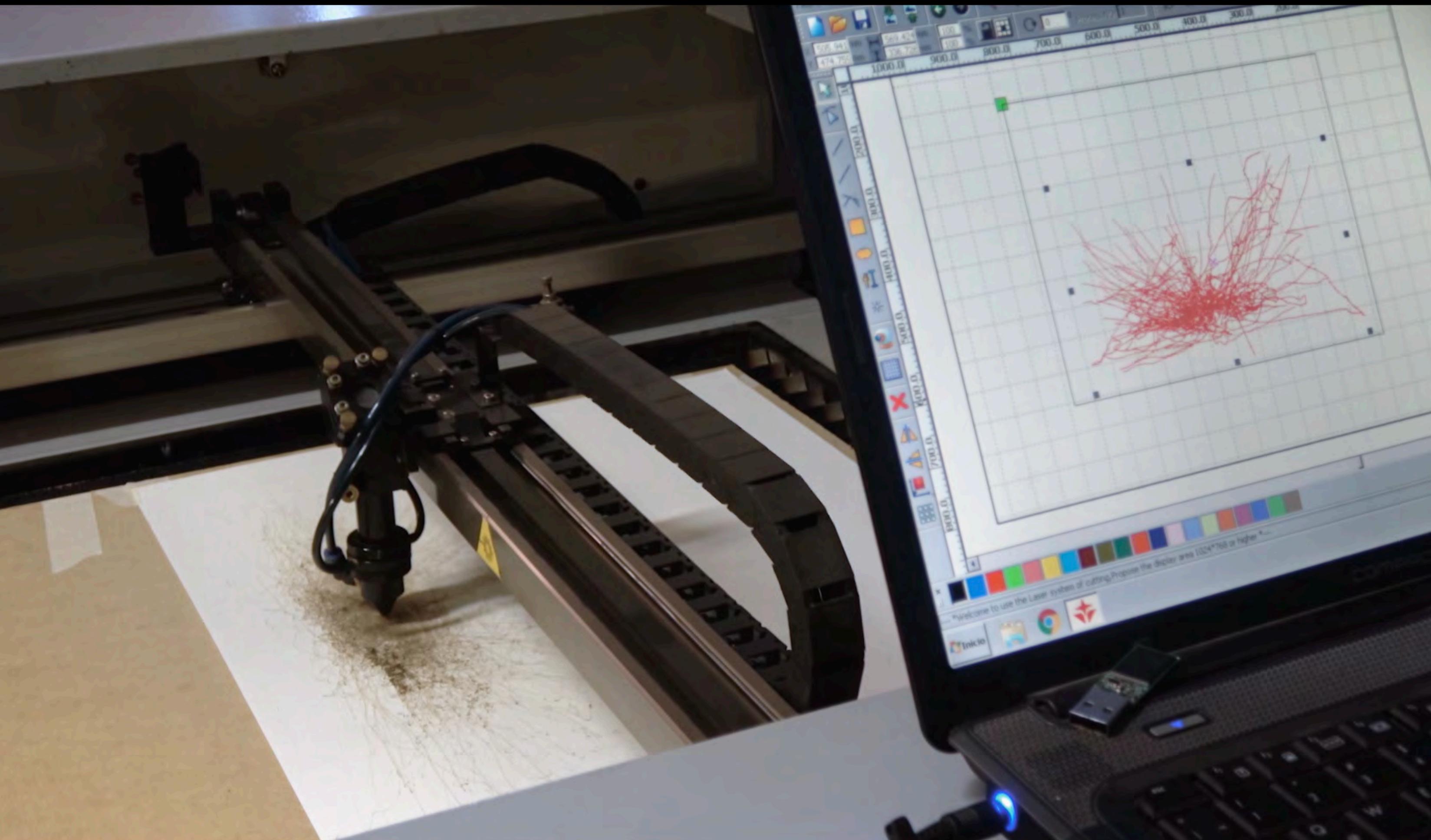
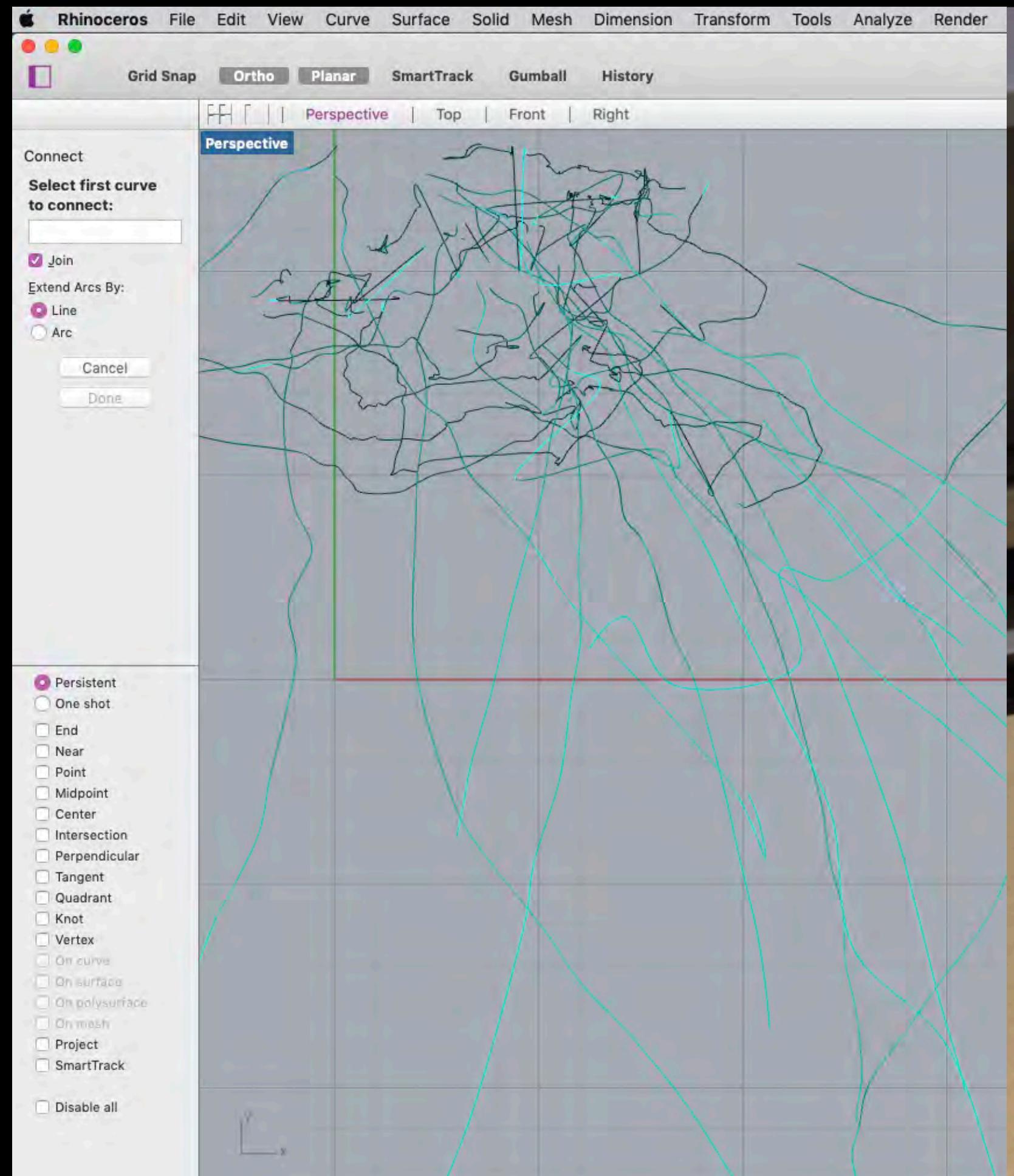
abejas_dev_Trazas_05

```
6,7503405  
cam_control easing  
zMaxSubcube=cubesSide;  
zMinSubcube=0;  
while ((xMaxSubcube-xMinSubcube)>=(maxX-minX))  
{  
    cx=(xMaxSubcube+xMinSubcube)/2;  
    cy=(yMaxSubcube+yMinSubcube)/2;  
    cz=(zMaxSubcube+zMinSubcube)/2;  
    if (px[j]<cx)  
        xMinSubcube=cx;  
    if (px[j]>cx)  
        xMaxSubcube=cx;  
    if (py[j]<cy)  
        yMinSubcube=cy;  
    if (py[j]>cy)  
        yMaxSubcube=cy;  
    if (pz[j]<cz)  
        zMinSubcube=cz;  
    if (pz[j]>cz)  
        zMaxSubcube=cz;  
}  
int q=Int((map(xMinSubcube, 0, cubesSide-(cubesSide/2)), map(yMinSubcube, 0, cubesSide-(cubesSide/2)), map(zMinSubcube, 0, cubesSide-(cubesSide/2))))  
int w=Int((map(xMaxSubcube, 0, cubesSide-(cubesSide/2)), map(yMaxSubcube, 0, cubesSide-(cubesSide/2)), map(zMaxSubcube, 0, cubesSide-(cubesSide/2))))  
int e=Int((map(x2MinSubcube, 0, cubesSide-(cubesSide/2)), map(y2MinSubcube, 0, cubesSide-(cubesSide/2)), map(z2MinSubcube, 0, cubesSide-(cubesSide/2))))  
int densidadactualis[i][j][k][l]=densidadactualis[i][j][k][l];  
  
int aux=0;  
  
colorMode(HSB, 100, 100, 100);  
stroke(0, 0, map(vd[j]), minV, maxV, 10, 100);  
//strokeWeight(map(vd[j]), minV, maxV, 10, 1);  
//colorMode(RGB, 255, 255, 255, 100);  
  
if (x<100&&z>95)//para generar coas  
strokeWeight(1);  
/  
if (x5[j]<(map(x5[j]+1)-xc5[j]))//convertir a .self  
if (mousePressed && (mouseButton == RIGHT))  
{  
    if (xd5[j]<maxX/2, yd5[j]>maxY/2, zd5[j]<maxZ/2)  
        line(xd5[j]-maxX/2, yd5[j]-maxY/2, zd5[j]-maxZ/2);  
    else  
        if (x2>maxX/2&&y2>maxY/2&&z2>maxZ/2)  
            line(x2+maxX/2, y2+maxY/2, z2+maxZ/2);  
}
```

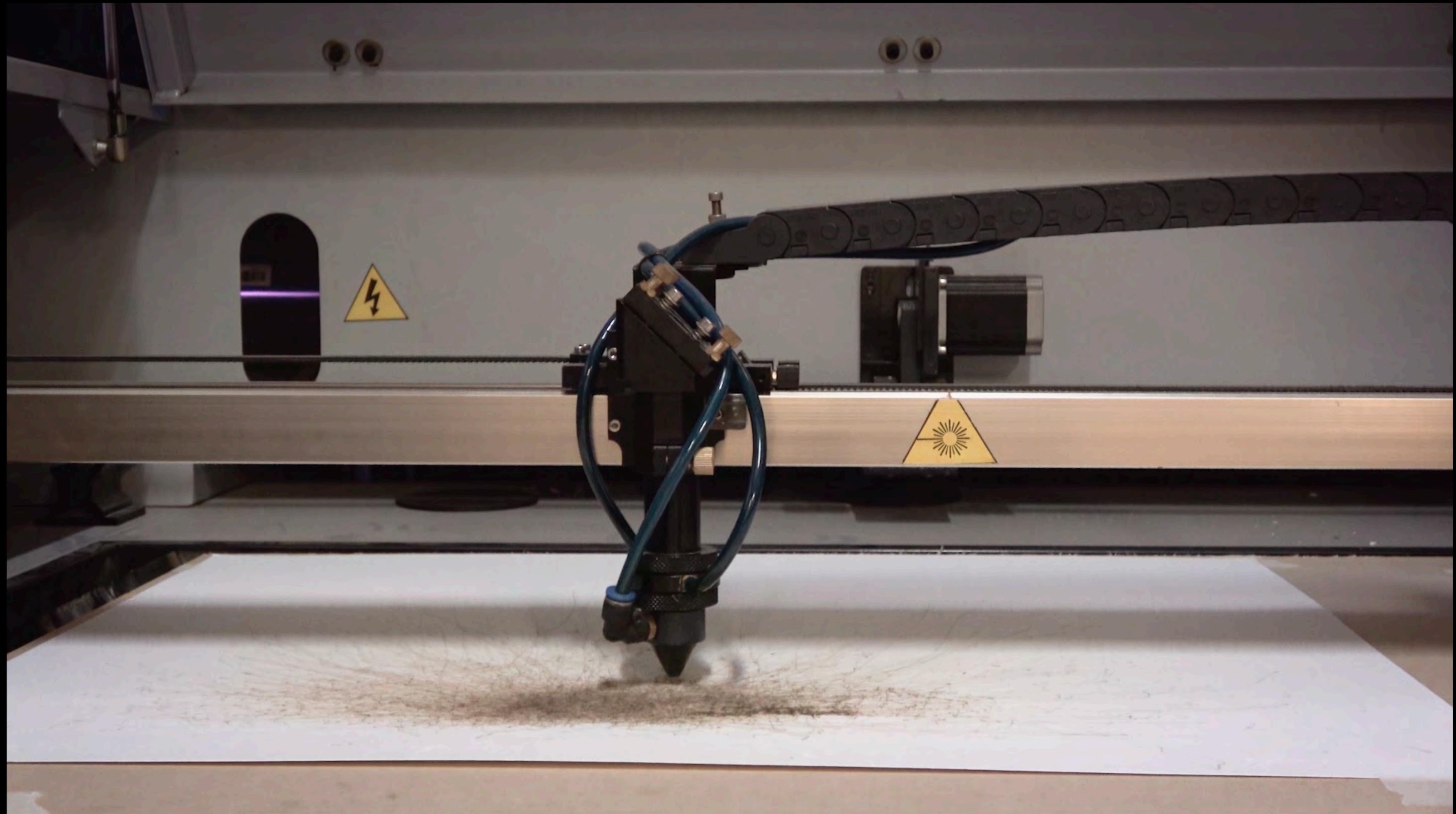










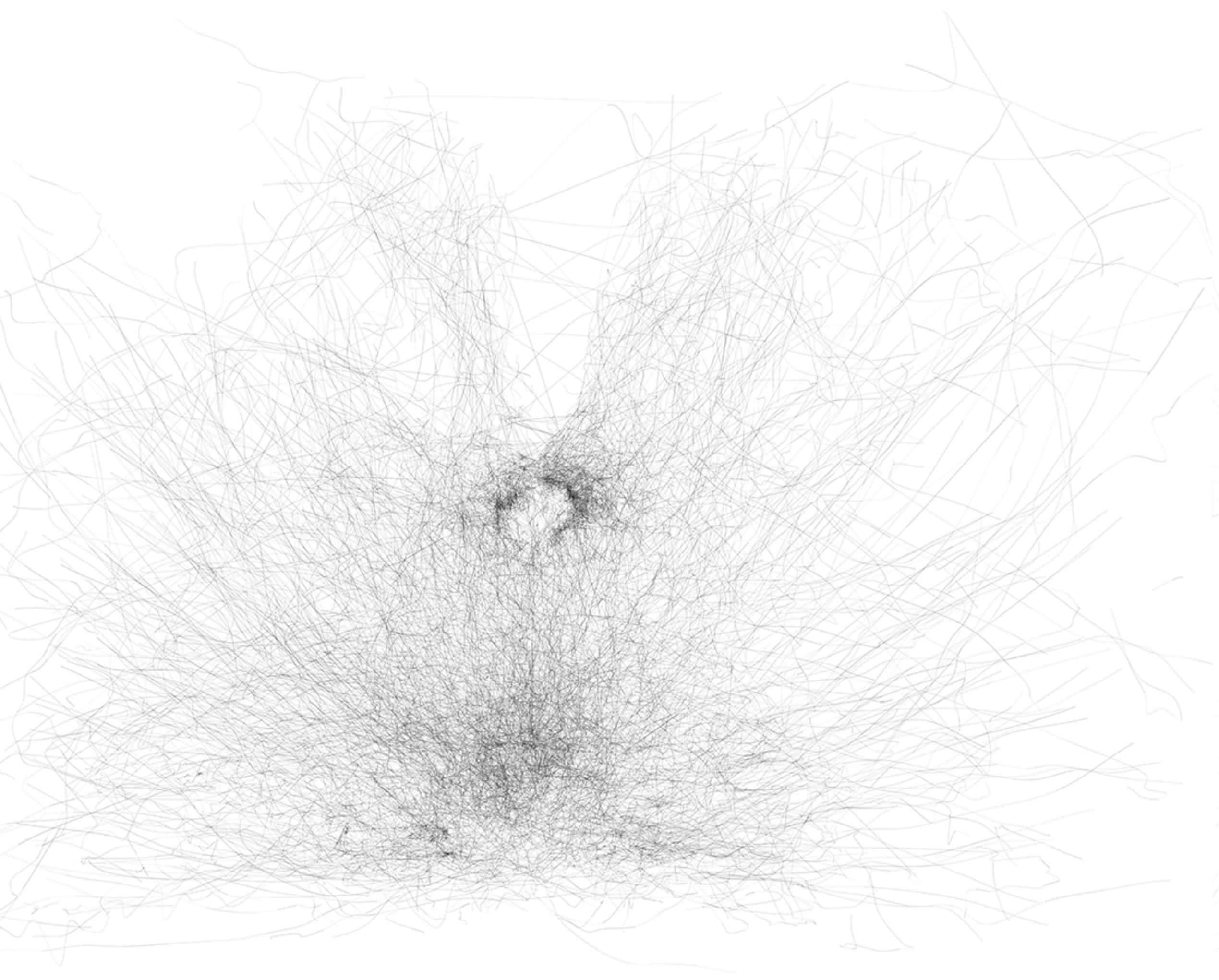




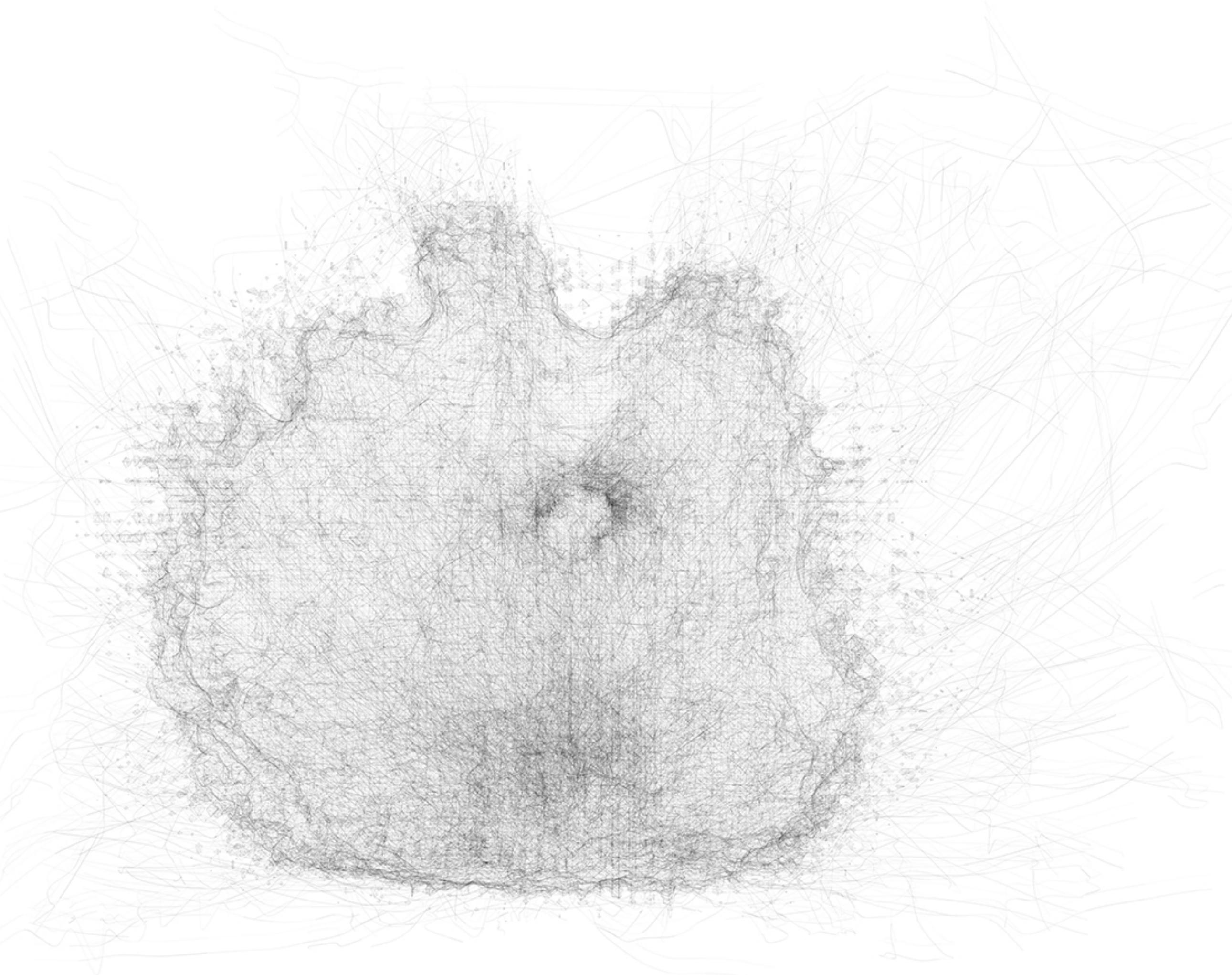
Mg. Carola Dreidemie

Directora LVCC UNRN
Bariloche, Río Negro, Argentina

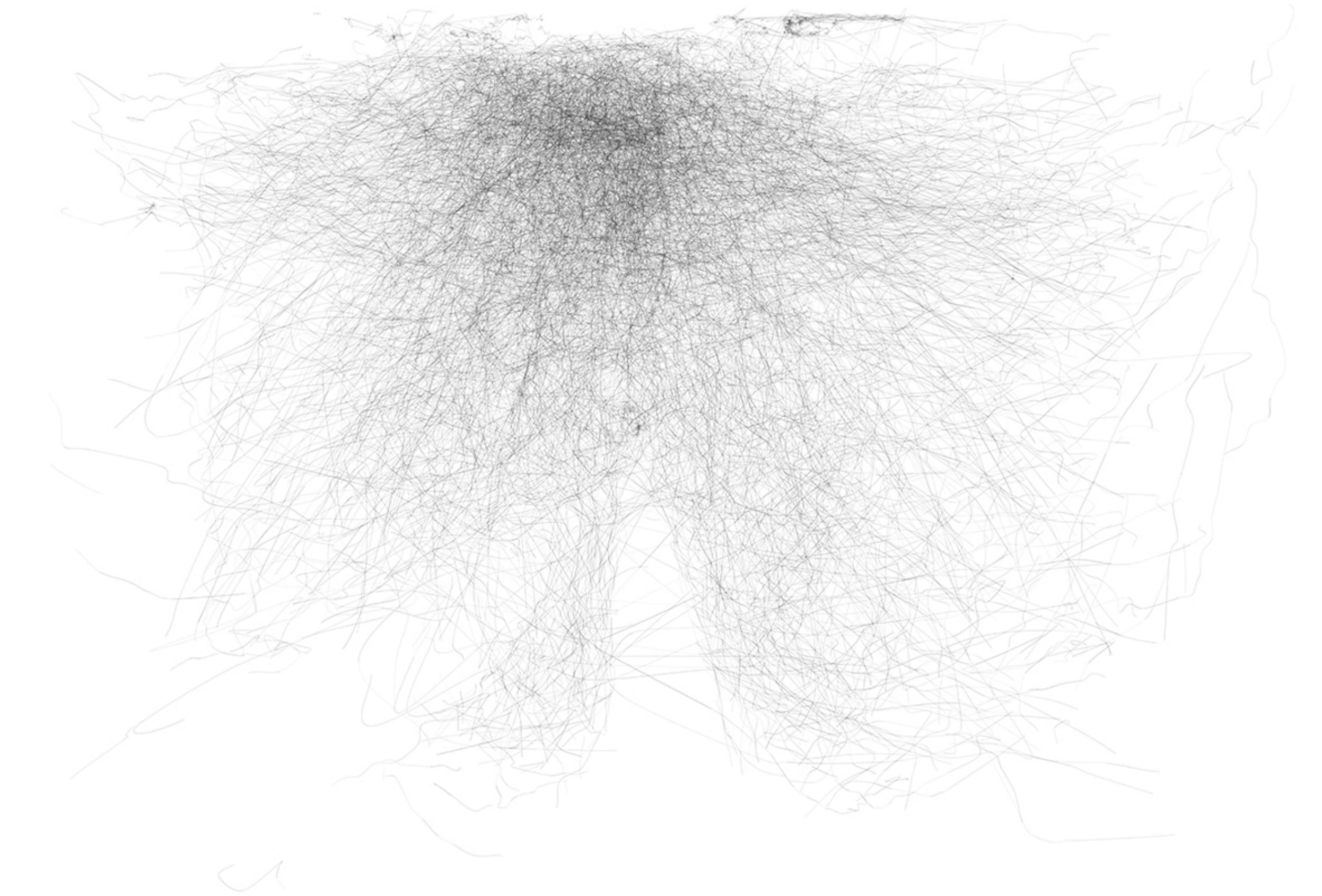




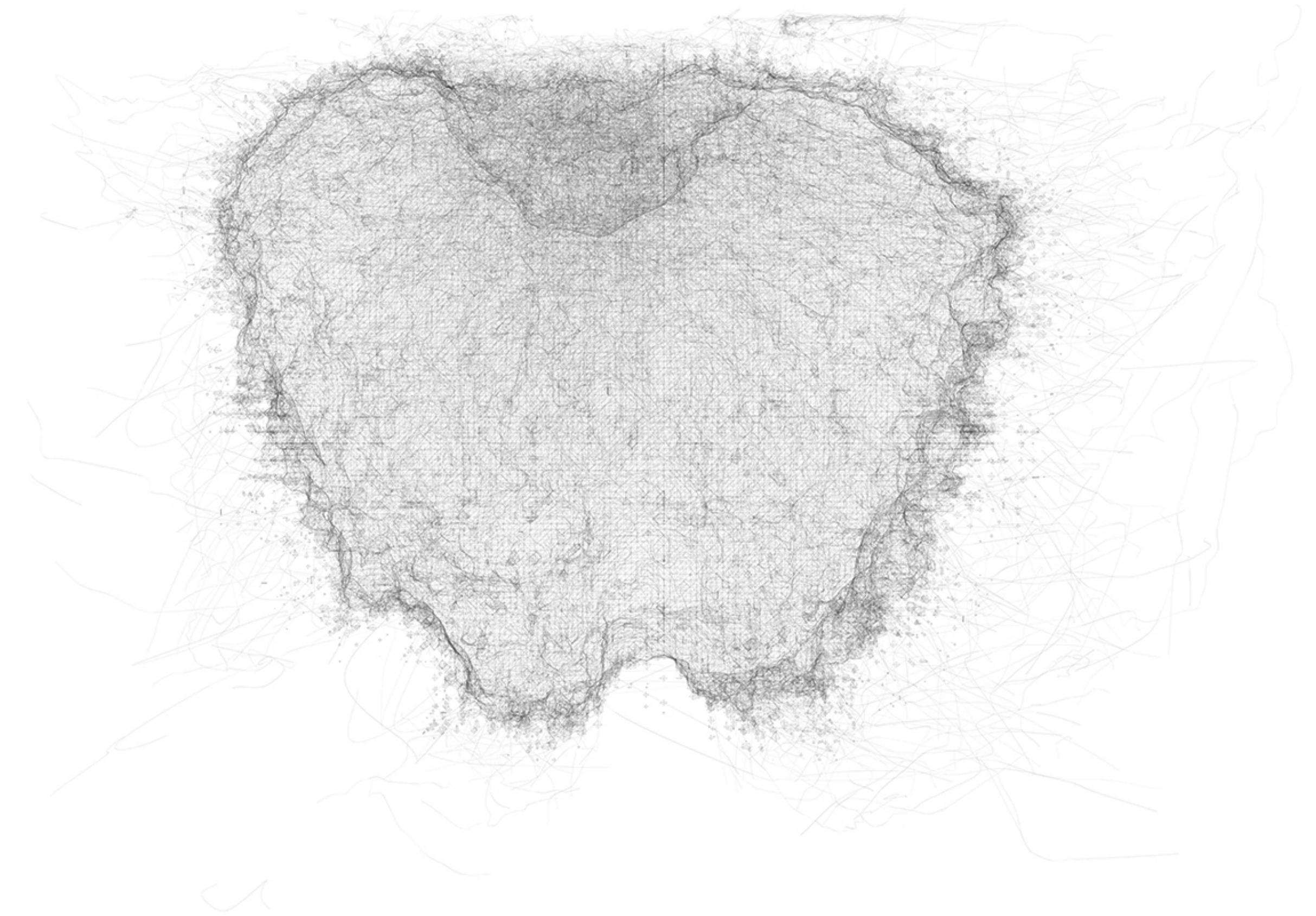
C3_Bee_opposite21_TOP_sISO



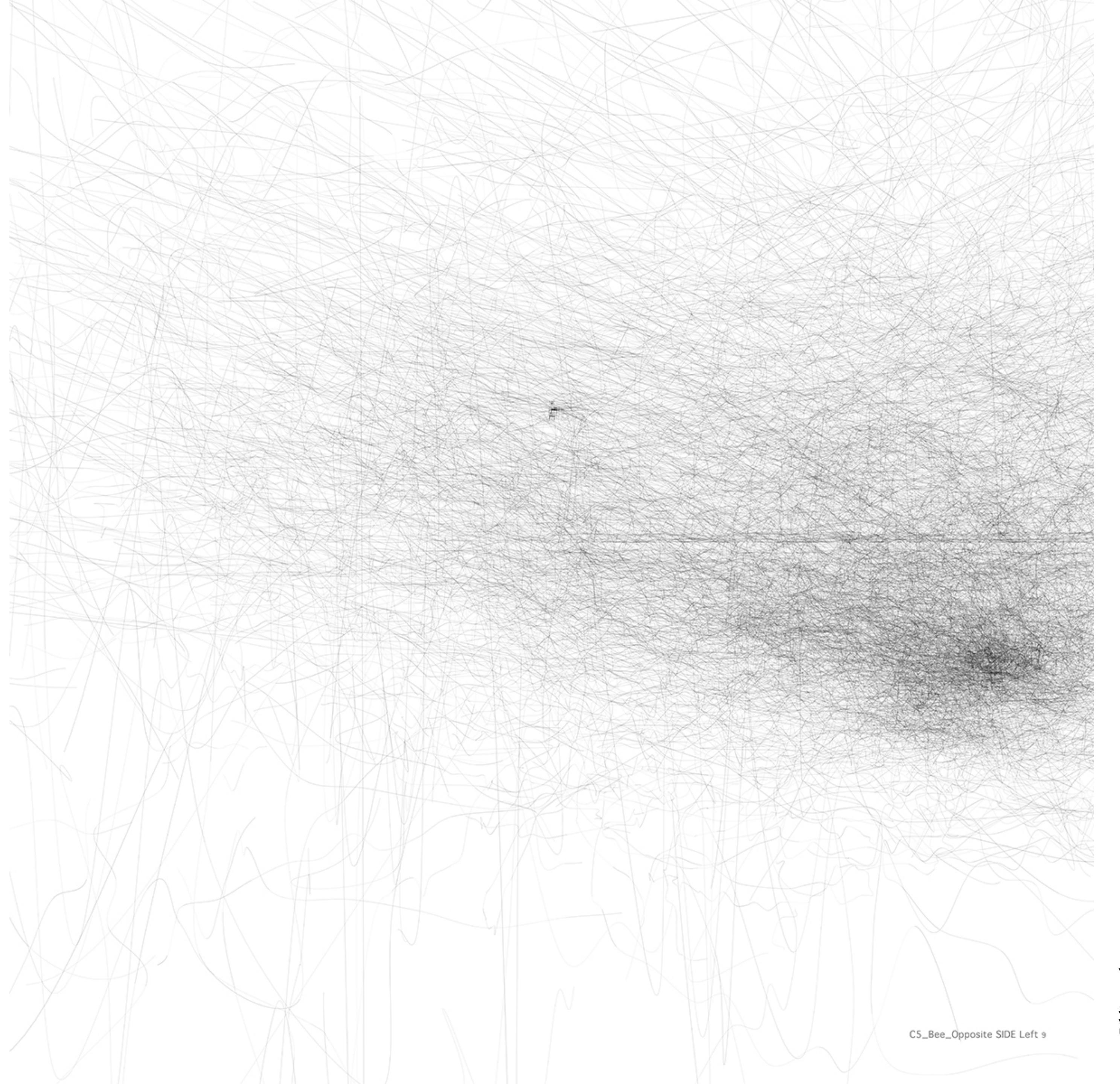
C3_Bee_opposite20_TOP_cISO



C4_Bee_opposite16



C4_Bee_opposite15



C5_Bee_Opposite SIDE Left

SOFTWARE ART AND SENSITIVE CONTINUUM: SPACES OF LATENCY BETWEEN LIVING SYSTEMS

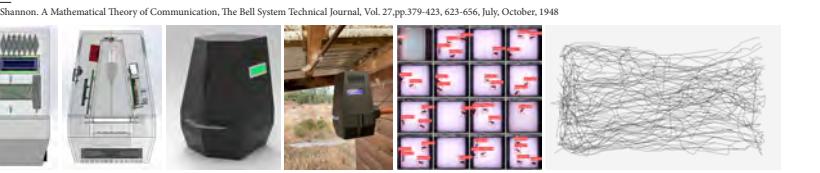


Policémies

To translate flight data into drawings and 3D computer renderings, carrying on the complex motion dynamics, spatial and temporal relationships. To propel an aesthetic, sensible and critical visual analysis of living systems while examining historically and critically our methods and devices that guide and limit our conceptual structures of seeing.

Art involving computers, computation, computational logic, or their architectures is commonly known by various terms such as Media Art, Software Art, or New Media. Digital Art specifically references the digit as the medium for transmitting and encapsulating information. Software Art integrates both the digit and artistic expression within the programming process. The code or software, constrained by the limitations of the machine, becomes the raw material of art, influencing the creative process and production methodology. This amalgamation of Fine Arts and Technology facilitates a dialogue between divergent methods of research and knowledge production. Utilizing computer programming as an artistic medium introduces novel aesthetics and fosters innovative scientific and conceptual inquiries.

In Shannon-Weaver's model of systemic communication transmission*, the message is abstracted from its inherent meaning and detached from physicality. This mathematical framework quickly expanded to analyze communication across various domains, including animal and human contexts. Data assumes a versatile form. As K. Hayles elucidates, "Information requires a degree of analogizing before human comprehension... it also depends on specific material conditions for perceptual and cognitive processing".



* C.E. Shannon. A Mathematical Theory of Communication. The Bell System Technical Journal, Vol. 27, pp.379-423, 623-656, July, October, 1948

"IF THE DOOR TO PERCEPTION WERE CLEANSED, THEN EVERYTHING WOULD APPEAR TO MAN AS IT IS - INFINITE."

* William Blake (1793) en Bill Viola, Reasons for Knocking at an Empty House



"THERE ARE THOUGHTS WE CAN ANTICIPATE, GLIMPSED IN THE DISTANCE ALONG EXISTING THOUGHT PATHWAYS."

* Beginning After the End. In Dark Ecology. For a Logic of Future Coexistence. Morton, T. Columbia University Press 2016.

REPRESENSING: Wolfgang Ernst, in 'Else Loop Forever'. The Un-timelessness of Media, elaborates on media temporalities. Some of the temporalities are tied to sequential processes and internal functions in computer hardware, other ones are performed by algorithms in computation that allow for recursive functions and a few 'real time' operations. All of them tweak and stretch our perception of the 'real' timepassage. Media, as he states it, performs a "micro-dramaturgy" of temporal properties. Ernst introduces an interesting term: Represensing. A term that couples a representation with something sensed. This term 'sense' stands in-between knowing and anticipating, and involves the senses in accordance with what is acknowledged and known, and with what is expected or projected.

The term 'Represensing' of the qualities mentioned, is particularly interesting for this study as it appears evident that it is an acting condition present in living systems dynamics. An action of representation disposed of any kind of assurance or of certainty of the immediate future, lacking the information of a 'read future'. An action taken as a gamble, as a leap of faith. For computation, this is handled through statistical approximation, averaging, hierarchy-sizing, scaling up.

In the disassembling of the affecting variables and conditions of the raw data material, the study in the first year inquired on the computer as a medium and looked into data and time management. Specifically:

DATA: a-Data as Information: Precision. Scale. Direction. Choice. Range. b-Coding: Analogue to digital translation. Language. Procedures. Memory. Storage. Loss.
TIME: Media temporality. Represensing. Statistical approximation. Averaging. Hierarchy-sizing. Scaling.

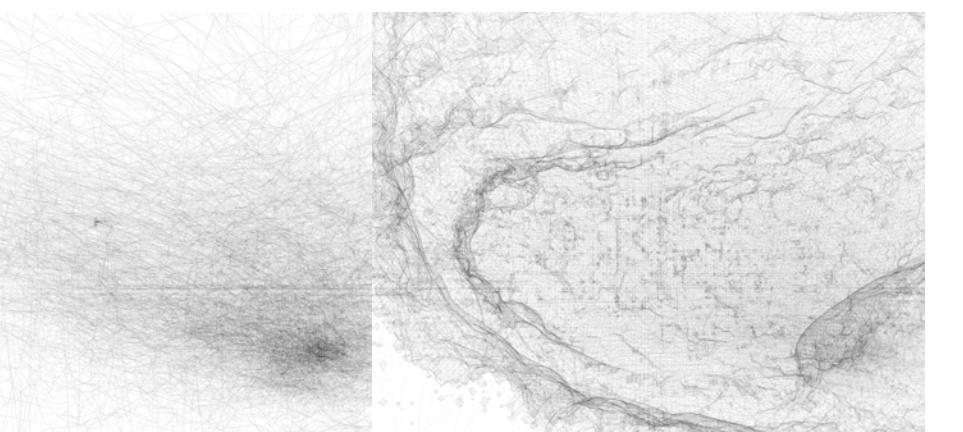
Art Production: Series of Six Diptychs. Large Format (100cm x 100cm) Digital prints. 2023

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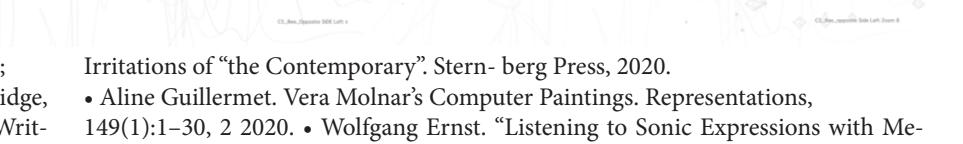
Bibliography



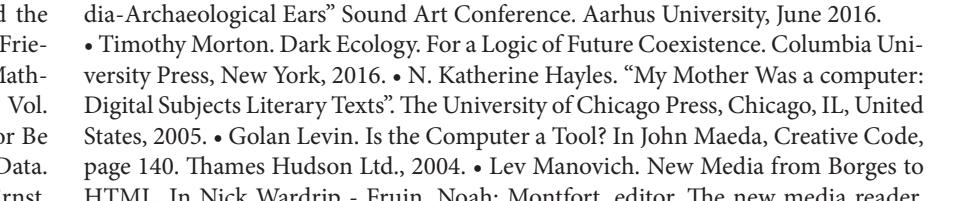
DREIDEMIE, Carola
www.caroladreidemie.com



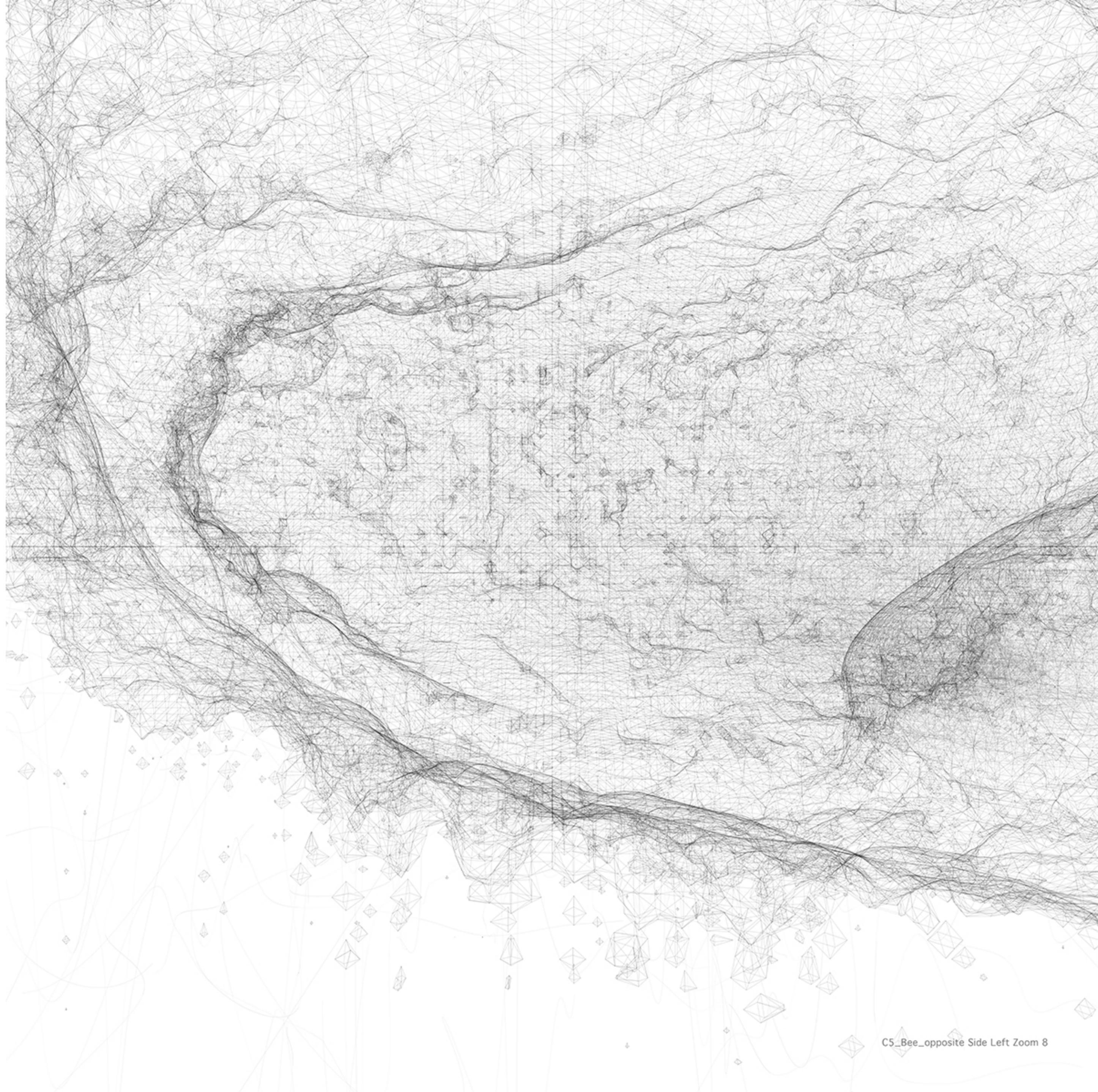
(C) Aline Guillermet, 2007-2008



(C) Aline Guillermet, 2007-2008



(C) Aline Guillermet, 2007-2008



Trajectoires éphémères. Ephemeral Trajectories.



3 Disciplines :: 3 Objectives

ECOLOGY

Post PhD fellow Fabrice Requier, UNRN-La Rochelle Université
Study in animal behavior w & w/o invasor

COMPUTER SCIENCE

Post PHD fellow, Guillaume Chiron, La Rochelle Université
Challenge: Ambitious task to achieve through computer sciences

ART

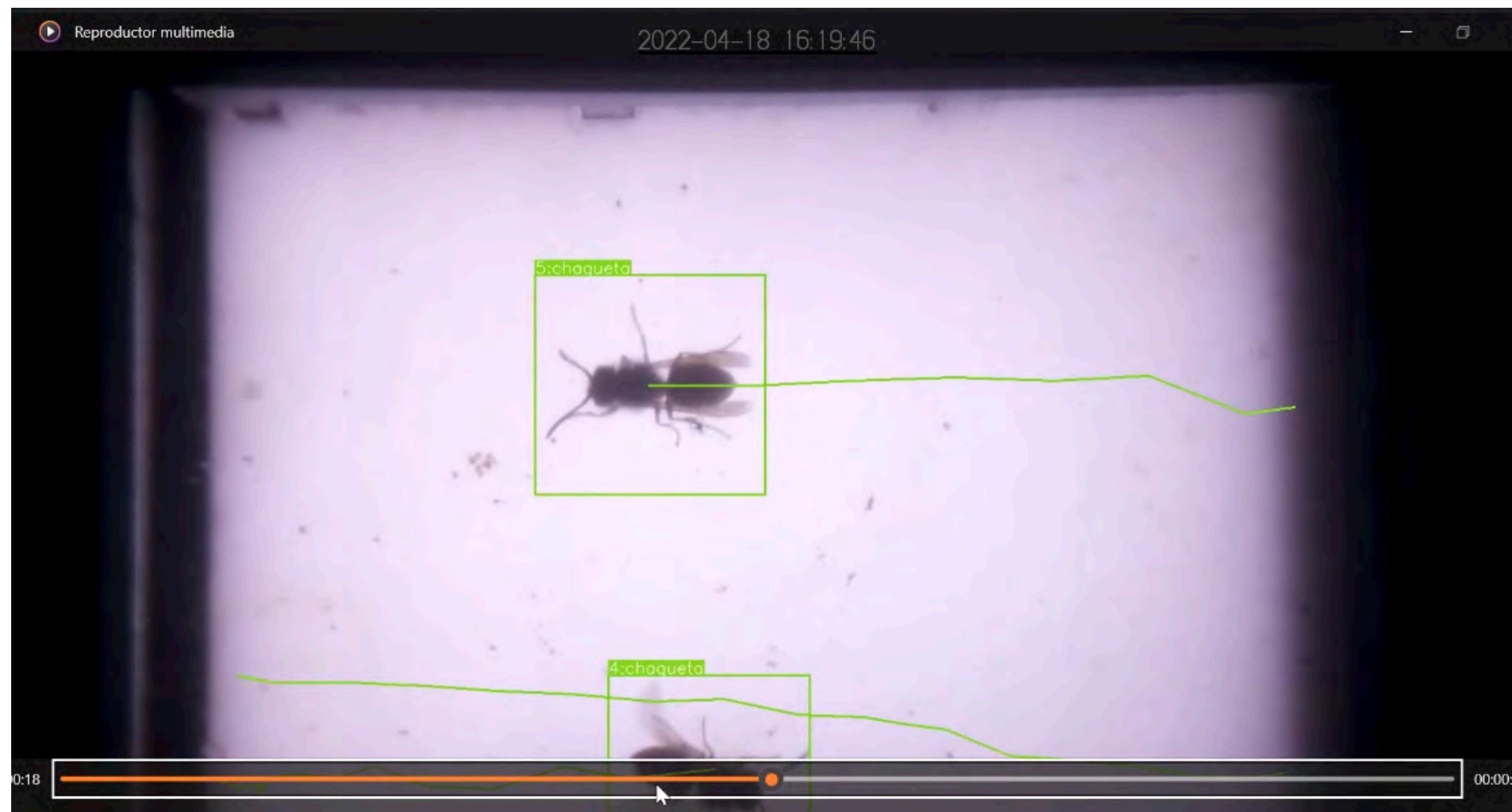
MFA Carola Dreidemie, LVCC-UNRN
New research through Art Practice and Production

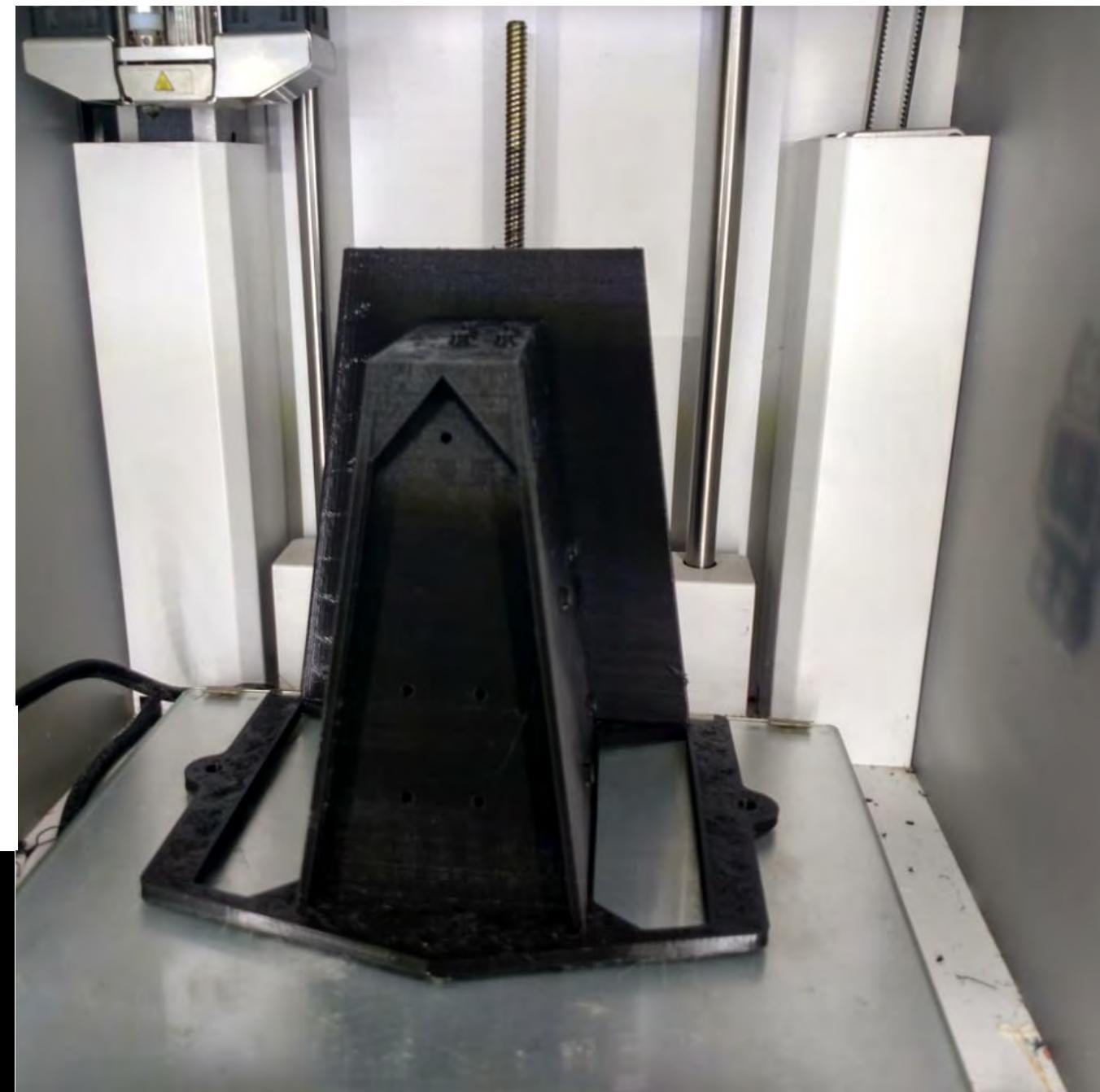
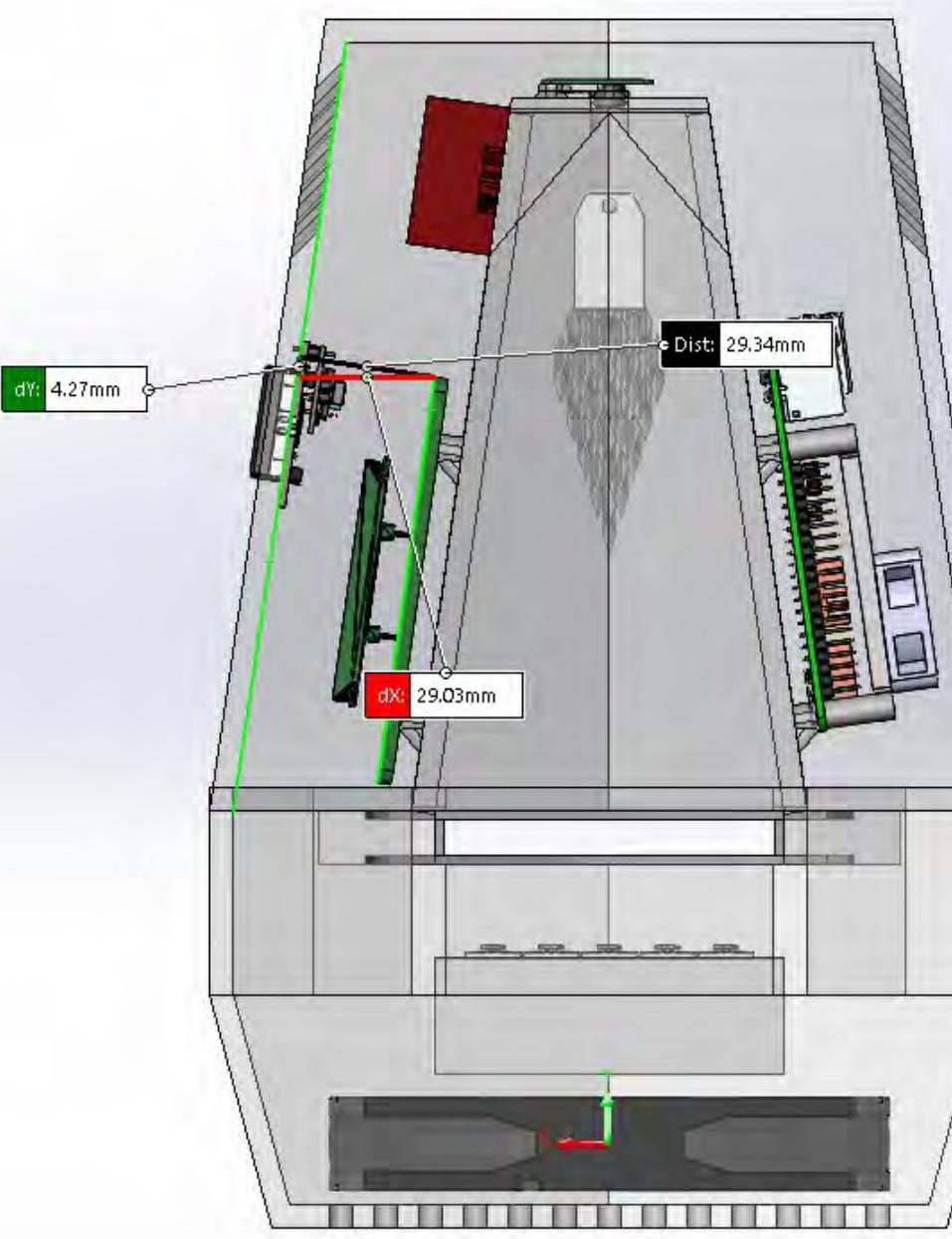
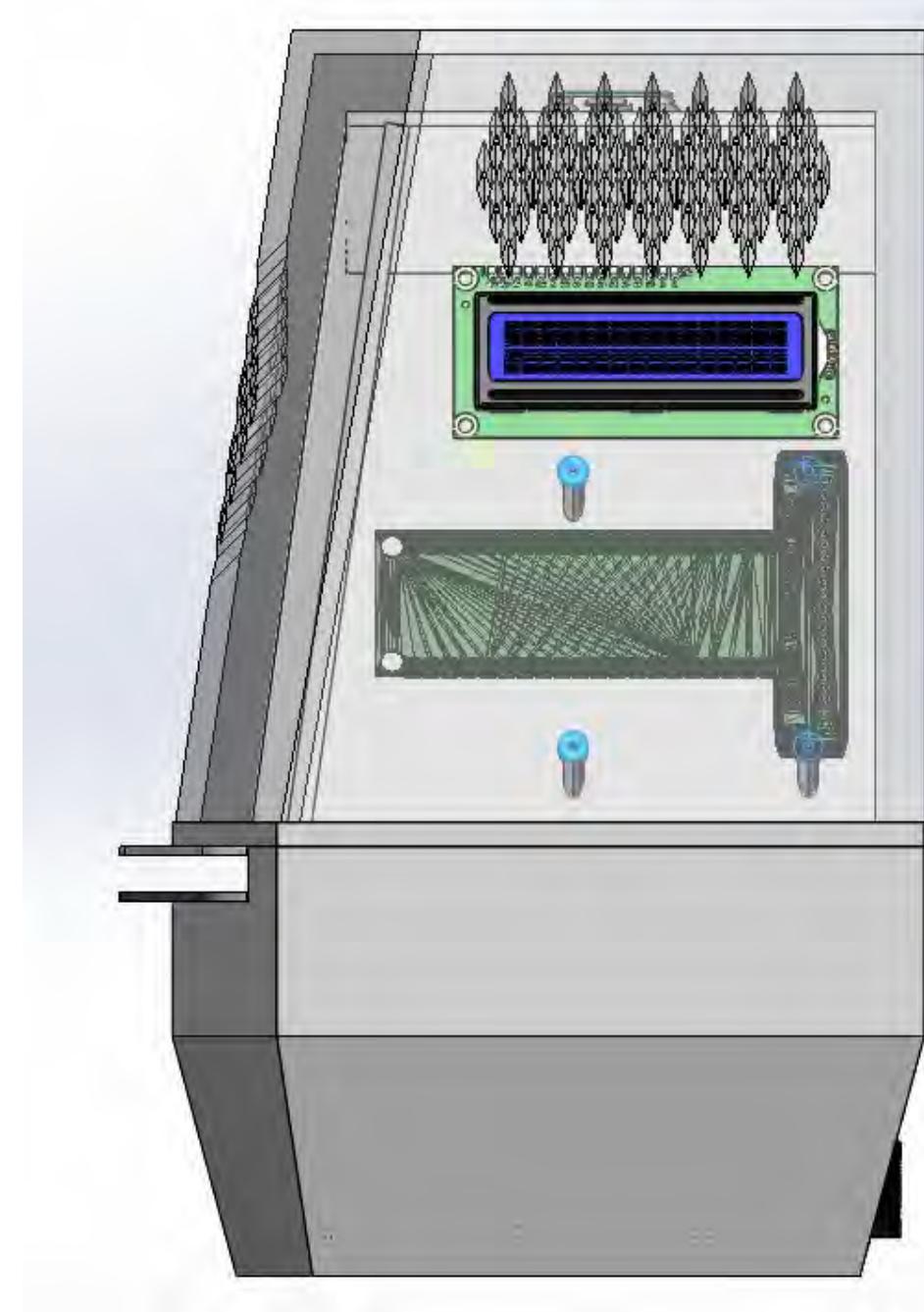


Automated Yellowjacket Nest Activity Monitor

Two main disciplines: ETHOLOGY & ART. Sub-disciplines: Electronic Engineering and Computer Science
Lead Researchers in Ethology: PhD. Andrés Martínez, PhD Maite Masciocchi (INTA)
Lead Researcher in Art: Carola Dreidemie (LVCC UNRN)

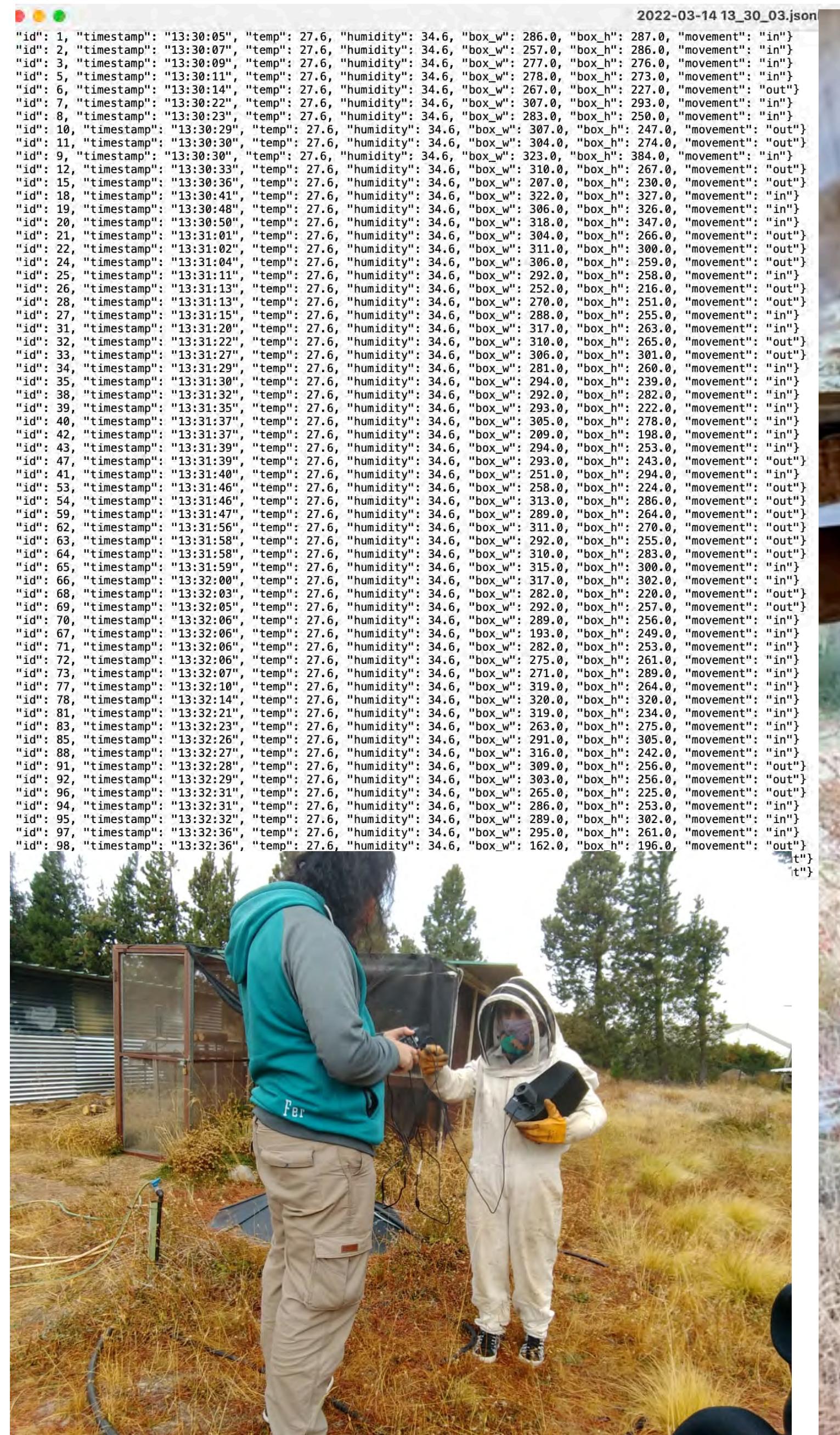
LVCC Technicians Fernan Inchaurza and Marian Basti.
LVCC Undergraduate Intern Agustín Cucurull.





UNRN | Universidad Nacional
de Río Negro







1 Special Issue "Advances in Insect Biomonitoring for Agriculture and Forestry"- Ed: Jordan Cuff

2 Advancing social insect research through the 3 development of an automated yellowjacket nest- 4 activity monitoring station using deep learning

5 Martínez A. S.^{1*}; Dreidemie C.^{2,3}; Inchaurza F.²; Cucurull A.²; Basti M.² and Masciocchi M.^{1*}

6 1 Grupo de Ecología de Poblaciones de Insectos, IFAB - Instituto de Investigaciones Forestales y
7 Agropecuarias Bariloche (INTA - CONICET), Bariloche, Argentina.

8 2 LVCC Laboratorio de Visualización y Código Creativo. CITECCA Centro Interdisciplinario de
9 Telecomunicaciones, Electrónica, Computación y Ciencias Aplicadas. UNRN Universidad Nacional de
10 Río Negro, Argentina.

11 3 Polémies - La Rochelle Université, La Rochelle, France.

12 *These two authors contributed equally to this work.

13 Corresponding author: Martinez A. S. andmarv77@gmail.com

14 Running title

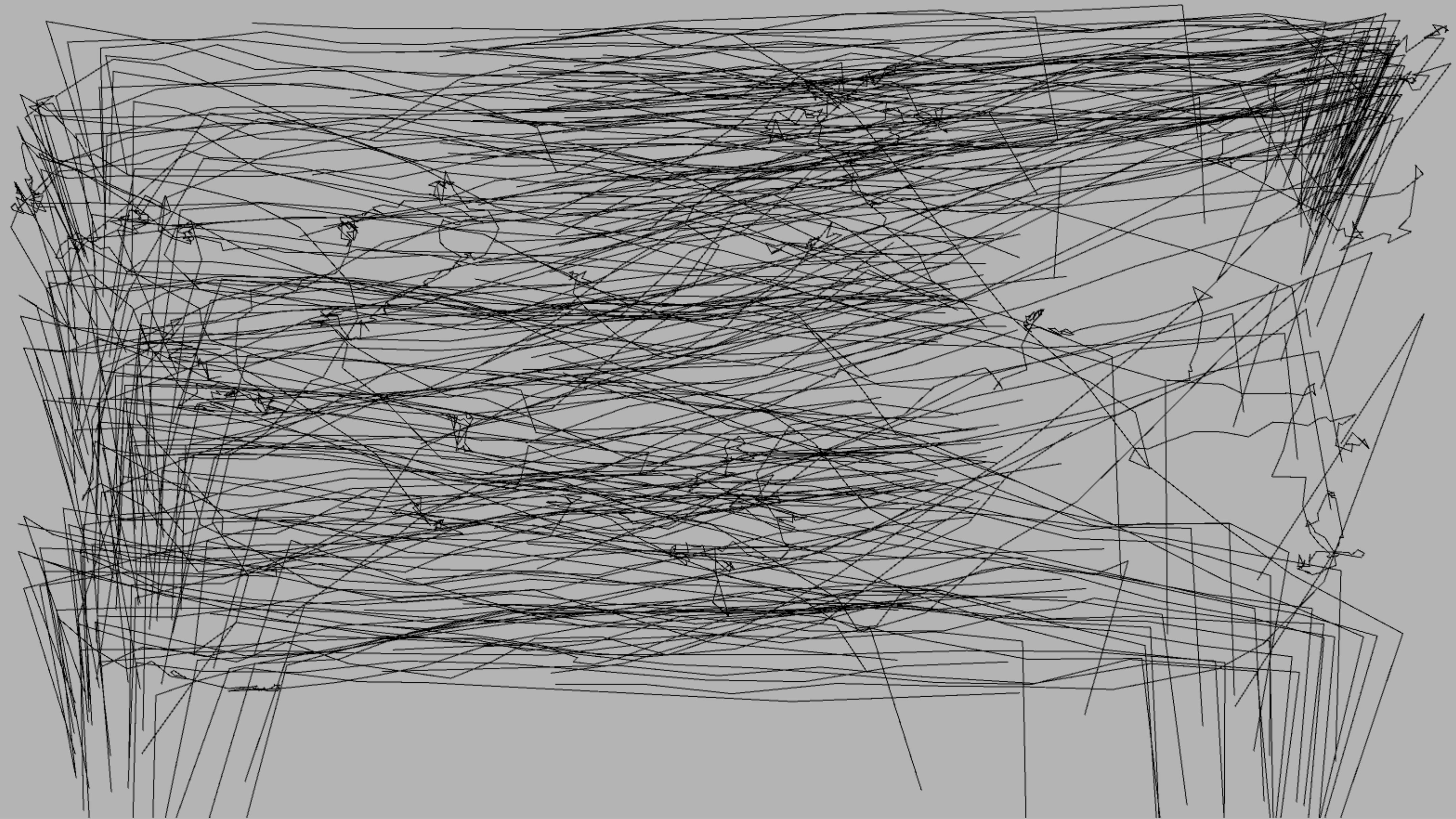
15 Automated social wasp traffic monitoring station

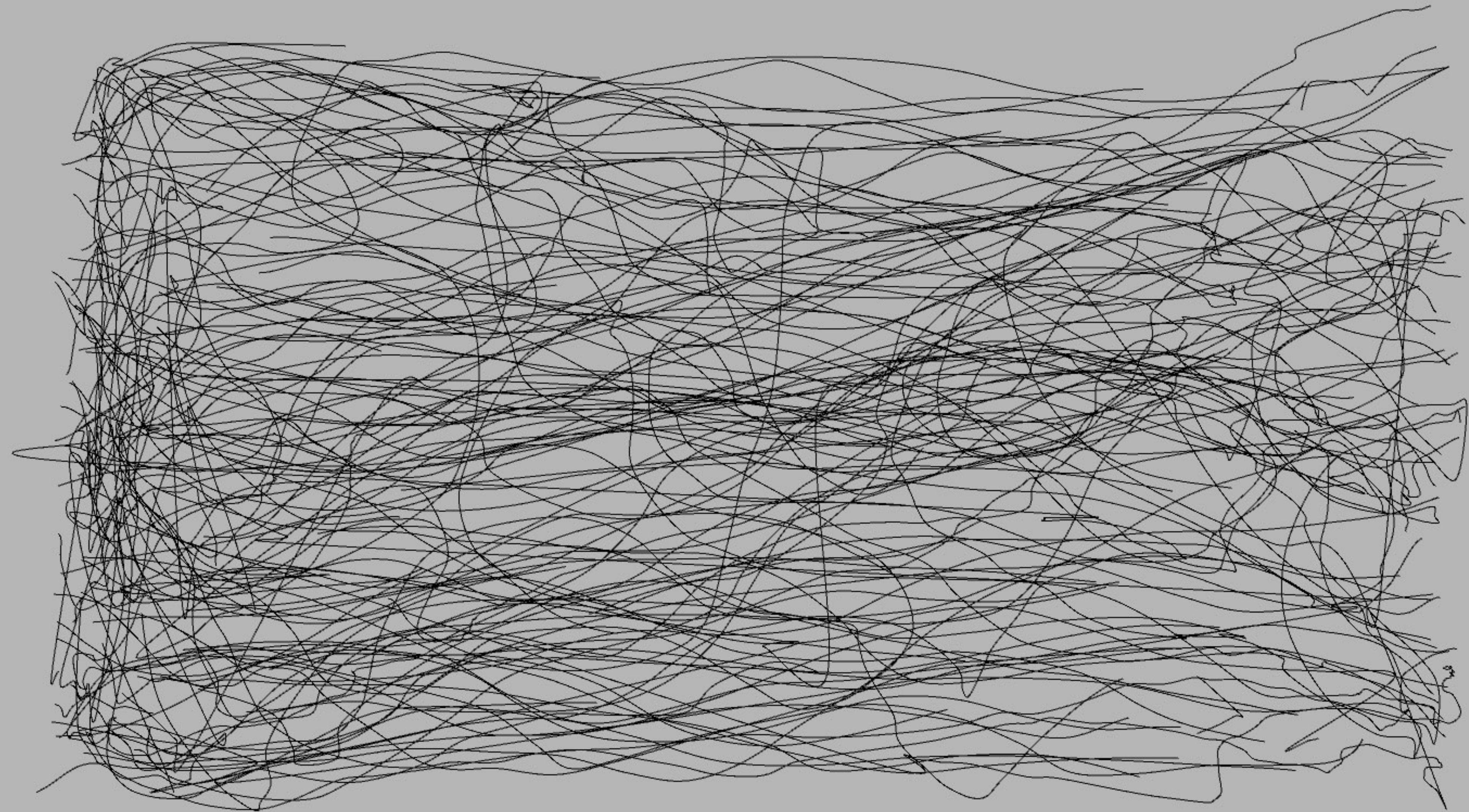
16 Keywords

17 Automatic caste recognition, Automation, Big data, Machine learning, Neural network, Pest, Social
18 insects.

19 Abstract

- 20 1. We describe the development and validation of an autonomous monitoring station that identifies
21 and records the movement of social insects into and out of the colony.
- 22 2. The hardware consists of an illuminated channel and a fixed camera to capture the wasps'
23 activities.
- 24 3. An ad-hoc post-processing software was developed to identify the direction of movement and
25 caste of the recorded individuals.
- 26 4. Validation results indicate that the model is robust in recognizing direction of movement of the
27 wasps and identifying caste.
- 28 5. This innovative tool holds immense potential for advancing ecological and behavioural research by
29 providing researchers with rapid and easily accessible data.
- 30 6. Understanding the activity patterns of individual wasps within the colony can yield valuable insights
31 into factors influencing their growth, foraging patterns, and the behaviour of reproductive
32 individuals. Ultimately, this information can be incorporated into effective management plans for
33 controlling harmful social insect populations in both ecological and productive systems.

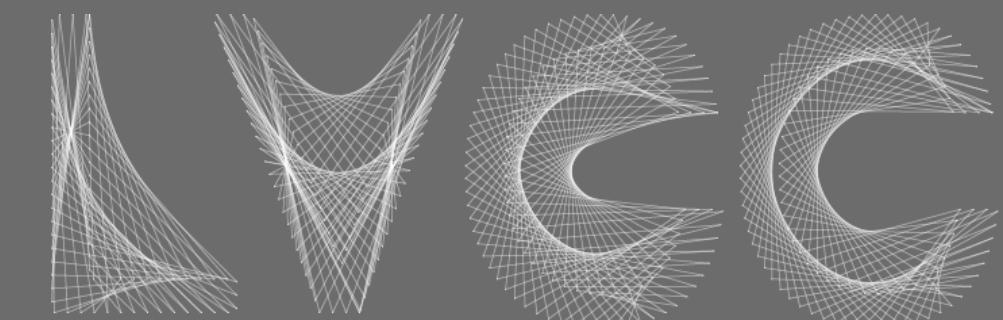




chaquetas 2d animacion con circulo

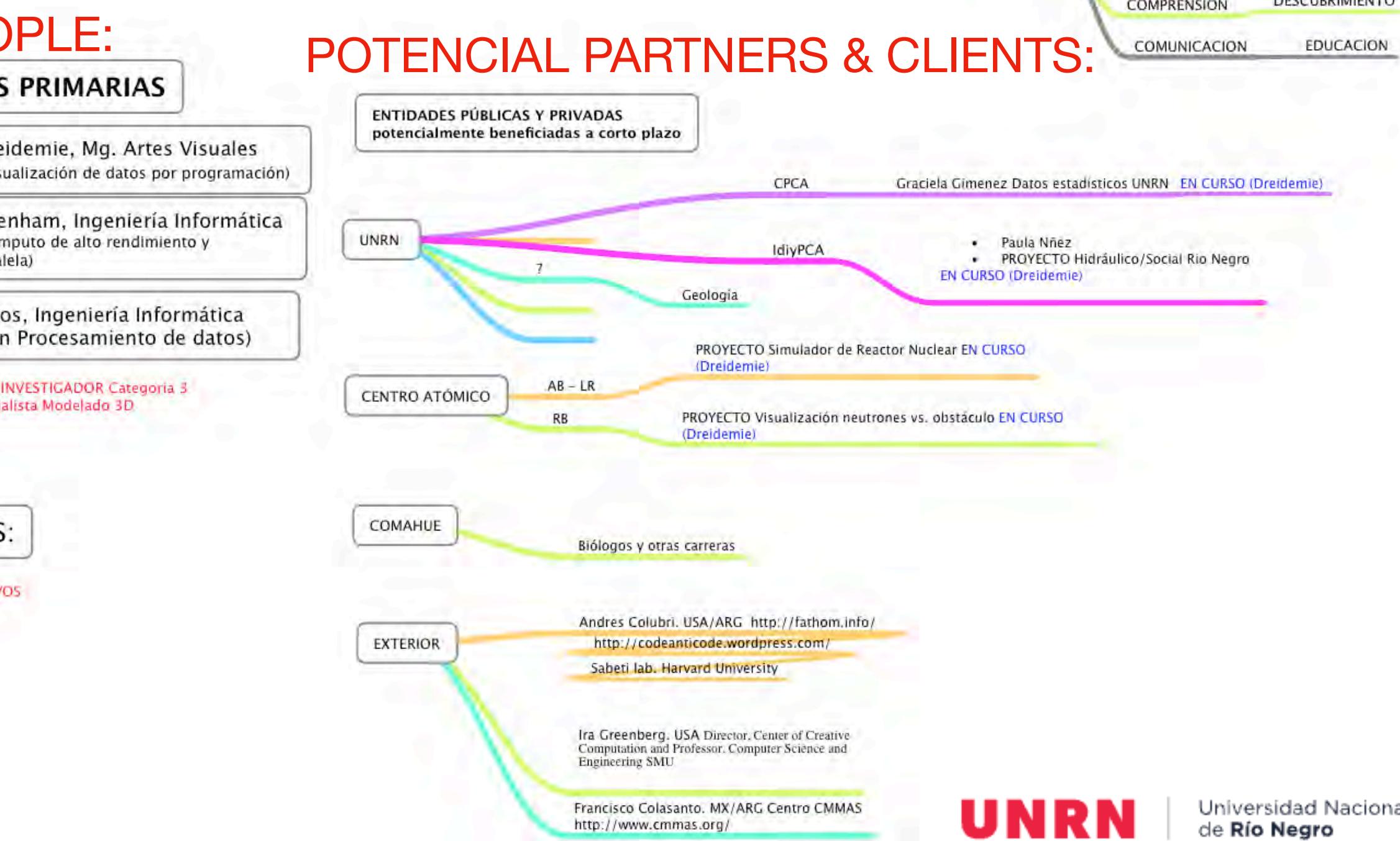
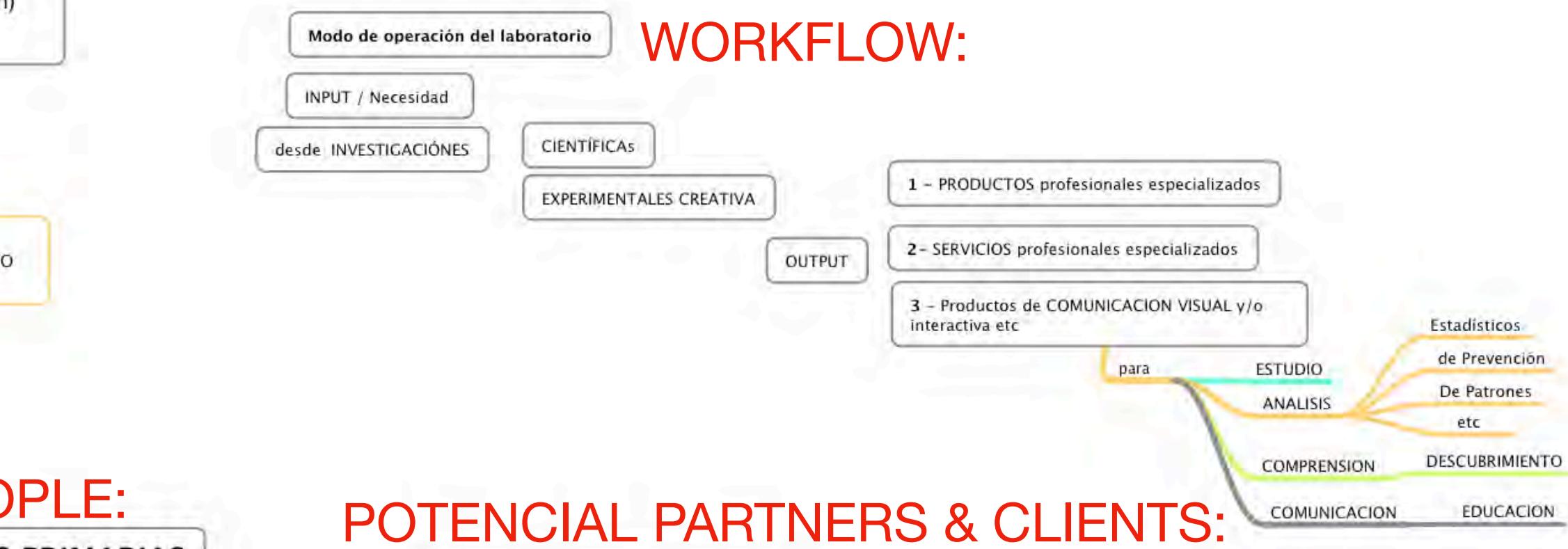
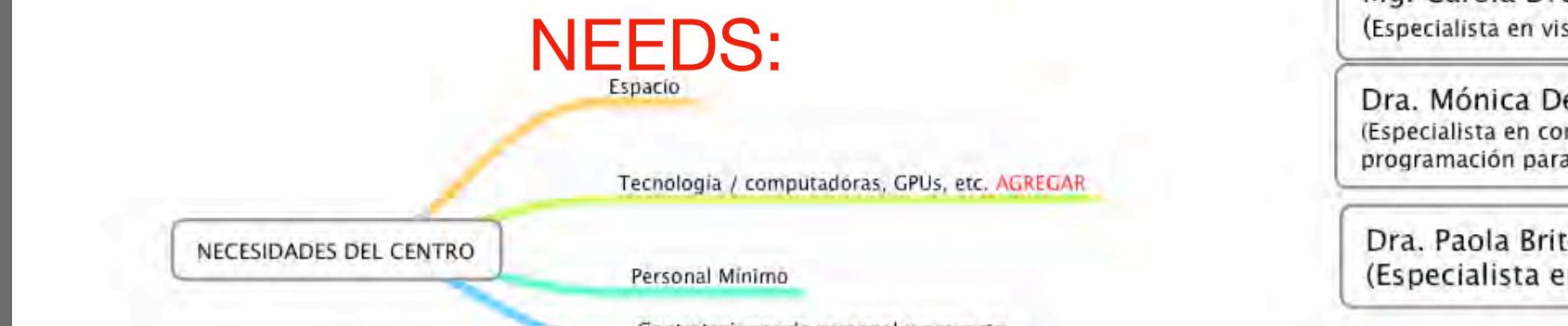
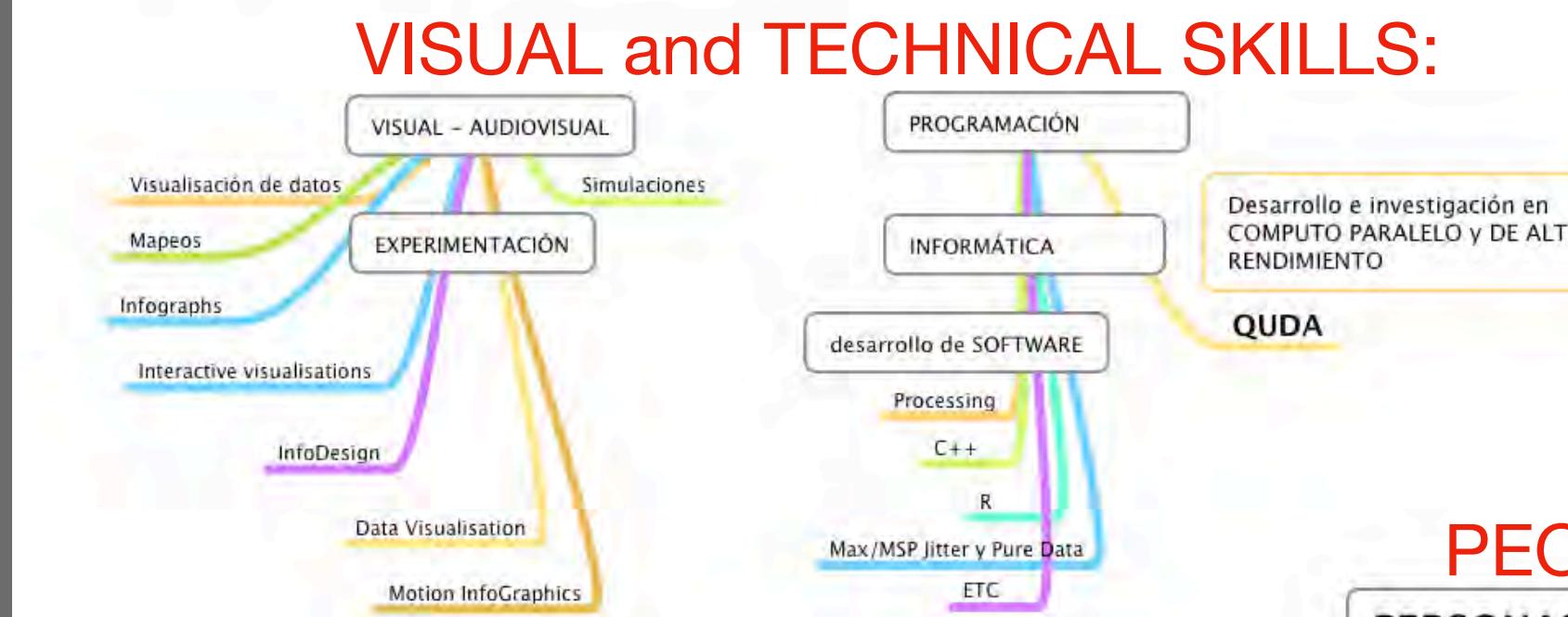
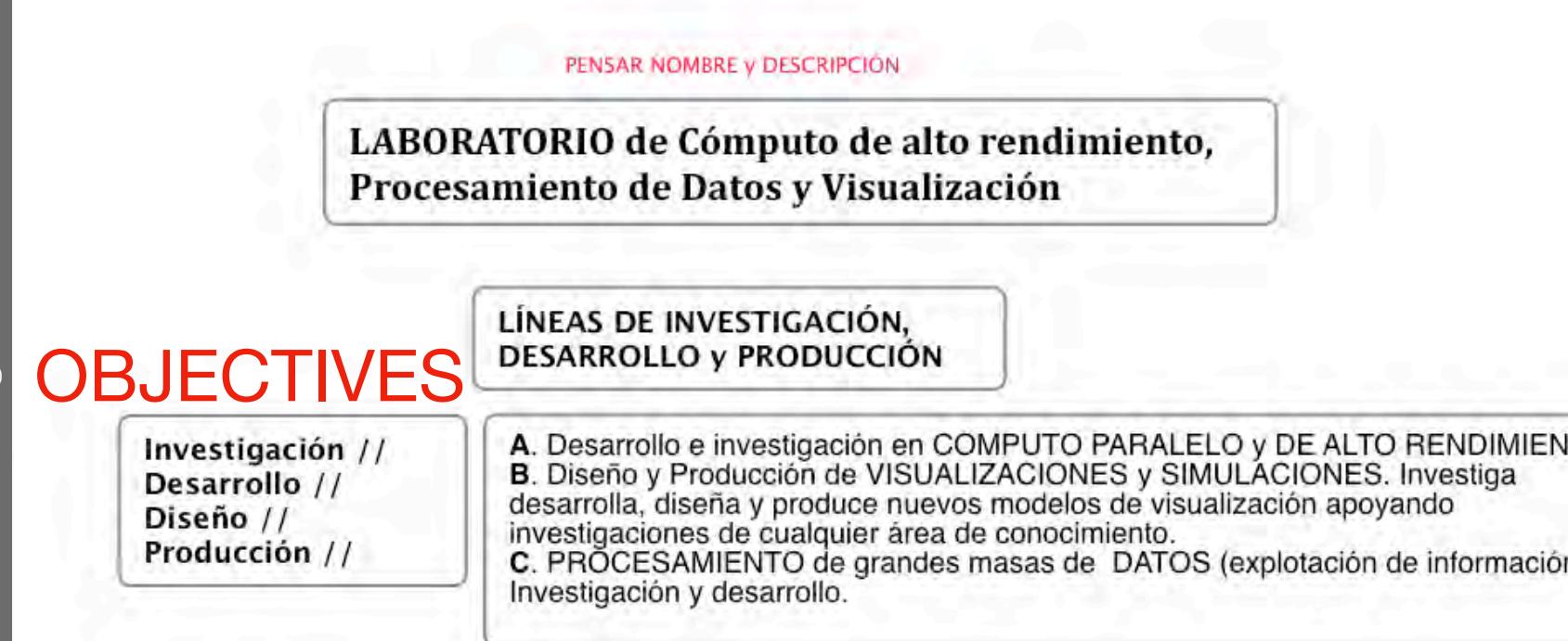
```
4 String filename=
5 int maxx=0,minx=
6 float maxv=0,minv=
7 float maxl=0,minl=
8 int group=4;
9
10 boolean record=false;
11 int nExport=0;
12
13 float[][][] t;
14 int[][] i;
15 String[][] t;
16 float[][] t;
17 int[] c;
18 int[] cou;
19 float paso=0;
20 float cantLineas;
21 int total = 0;
22
23 void setup()
24 {
25   size(1600, 900);
26   JSONArray json = loadJSON("data.json");
27   println(json);
28   total = json.size();
29   for (int j = 0; j < total; j++) {
30     JSONObject t = json.getJSONObject(j);
31     times[j][0] = t.getInt("times[0]");
32     times[j][1] = t.getInt("times[1]");
33     temps[j][0] = t.getFloat("temps[0]");
34     temps[j][1] = t.getFloat("temps[1]");
35     JSONArray pt = t.getJSONArray("pt");
36     ids[j][1] = pt.length();
37     for (int i = 0; i < ids[j][1]; i++) {
38       JSONArray traj = pt.getJSONObject(i).getJSONArray("traj");
39       traj[j][i] = pt.getJSONObject(i).getJSONArray("traj");
40       traj[j][i].setLength(ids[j][1]);
41     }
42   }
43 }
```

The image shows a 2D animation window with a light gray background featuring faint, overlapping wavy lines. In the foreground, there are several thick, dark gray wavy lines that represent the trajectory of a jacket. These lines are layered and overlap, creating a sense of depth. At the bottom of the window, there is a control bar with various icons: a play button, a stop button, a forward button, a backward button, a zoom-in button, a zoom-out button, and a full-screen button. Below the control bar, there is a progress bar indicating the current frame at 00:12 and the total duration at 00:38.



Laboratorio de ID+i Visualización y Código Creativo

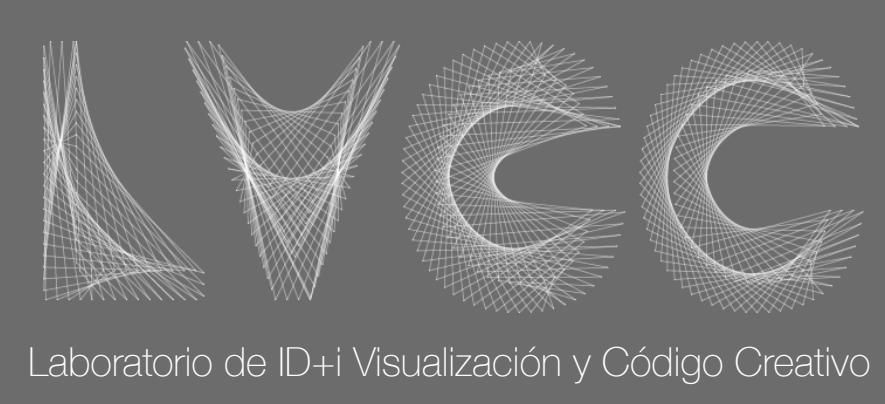
* created in 2014



Incrementing biodiversity in productive farmland.



I R N A D

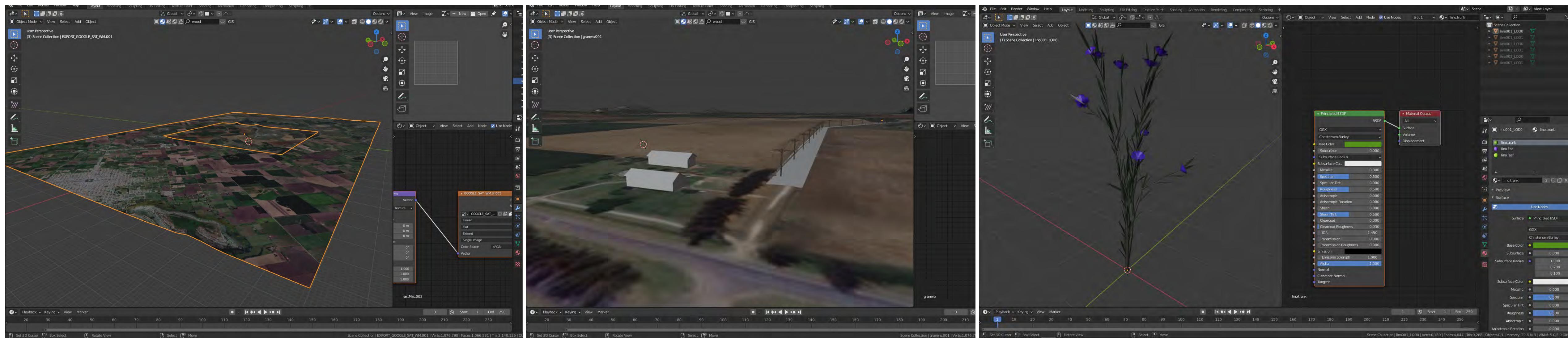
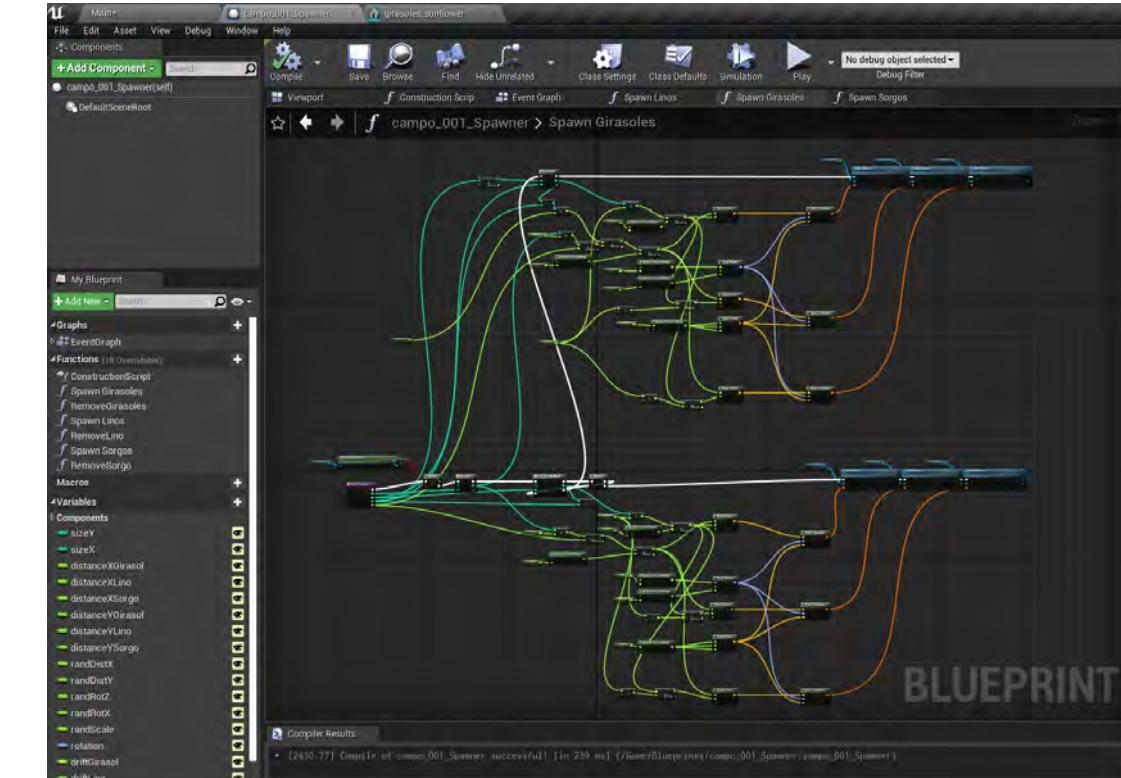


Lead Researcher Ing. Lucas A. Garibaldi
LVCC Researcher in Art: Carola Dreidemie

LVCC Technician Marian Basti.
LVCC Middle School Interns: Katja Pucher Baumann and
Franco Grattoni.

Visual communication for an audience
of policy makers and general public.

Applied advanced media tools for visual communication of research:
Blender for modeling. UnReal for interactivity design.
Adobe Suite for media editing and postproduction.
Various programming languages.



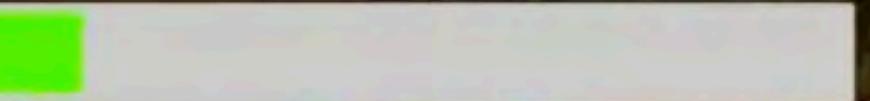
LIGHTING NEEDS TO BE REBUILT (56 unbuilt objects)

This file has been updated to support

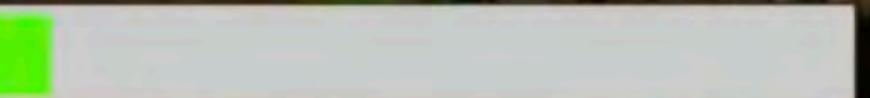
Contaminantes del suelo

Intensificación ecológica

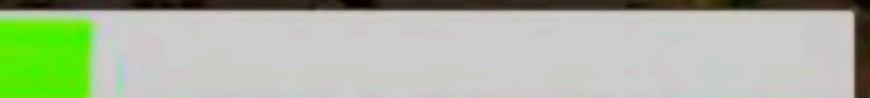
Pesticidas



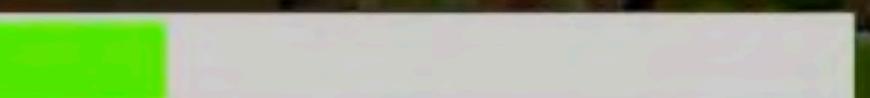
Herbicidas



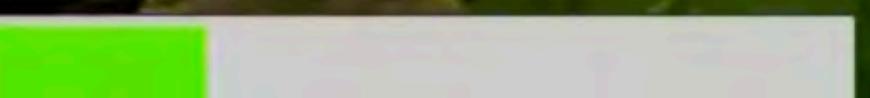
Maleza resistente



Anegamiento



Erosión



U.

Universidad Nacional
de Río Negro

VolGIS: A volcano oriented GIS for multidisciplinary analysis.

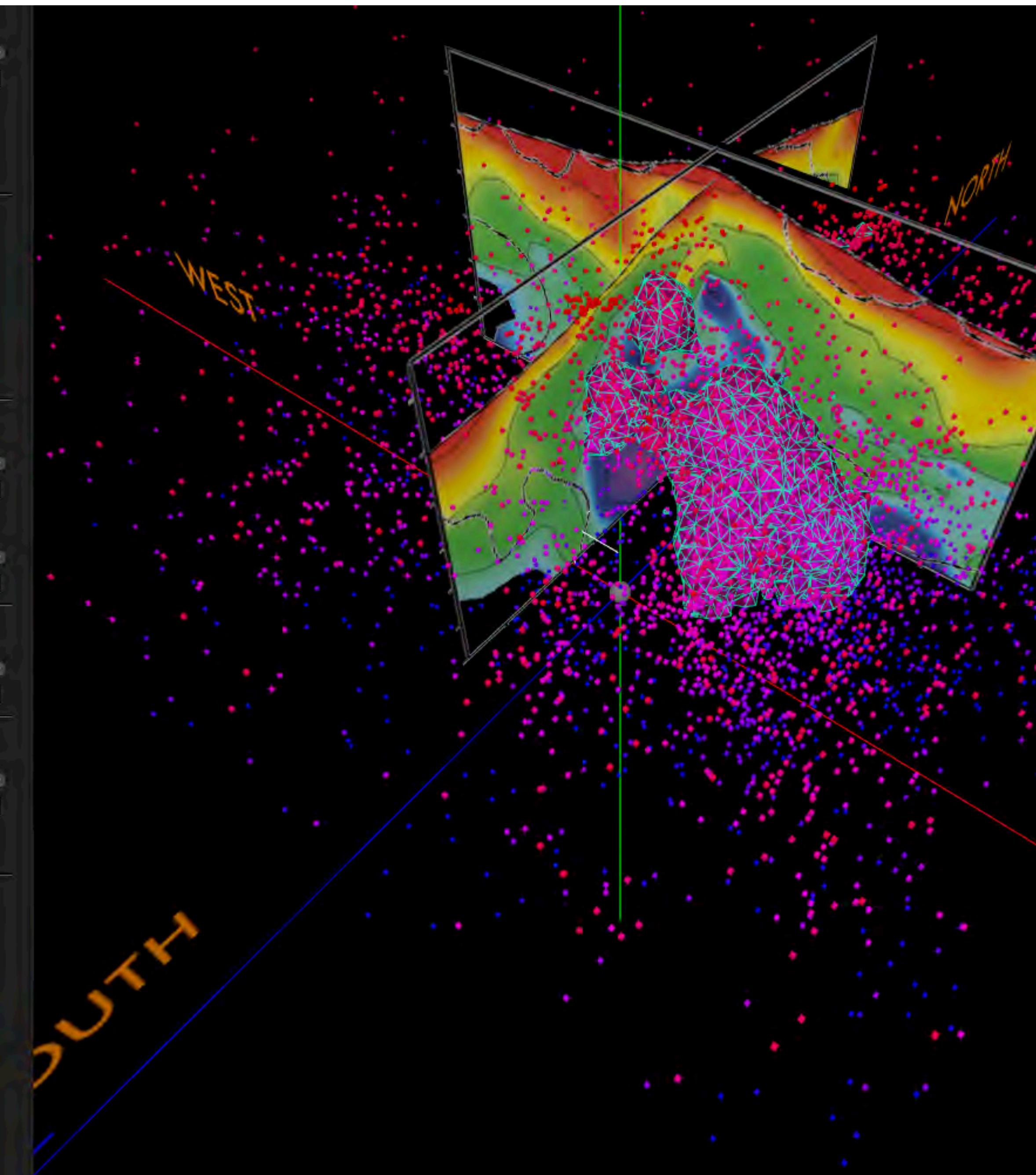
Lead researcher: PhD. Student Roberto A. Guardo. Geophysicist.
Phd thesis co-director. PhD. Luca De Siena, University of Aberdeen.

LVCC Researcher: MFA. Carola Dreidemie. UNRN, Argentina
LVCC Visiting Researcher: MFA Andrés Colubri. Coder, 3D OpenGL.
Sabeti Lab, Harvard University, Broad Institute, MA, USA.

LVCC Technicians: Fernan Inchaurza & Ariel Uzal.

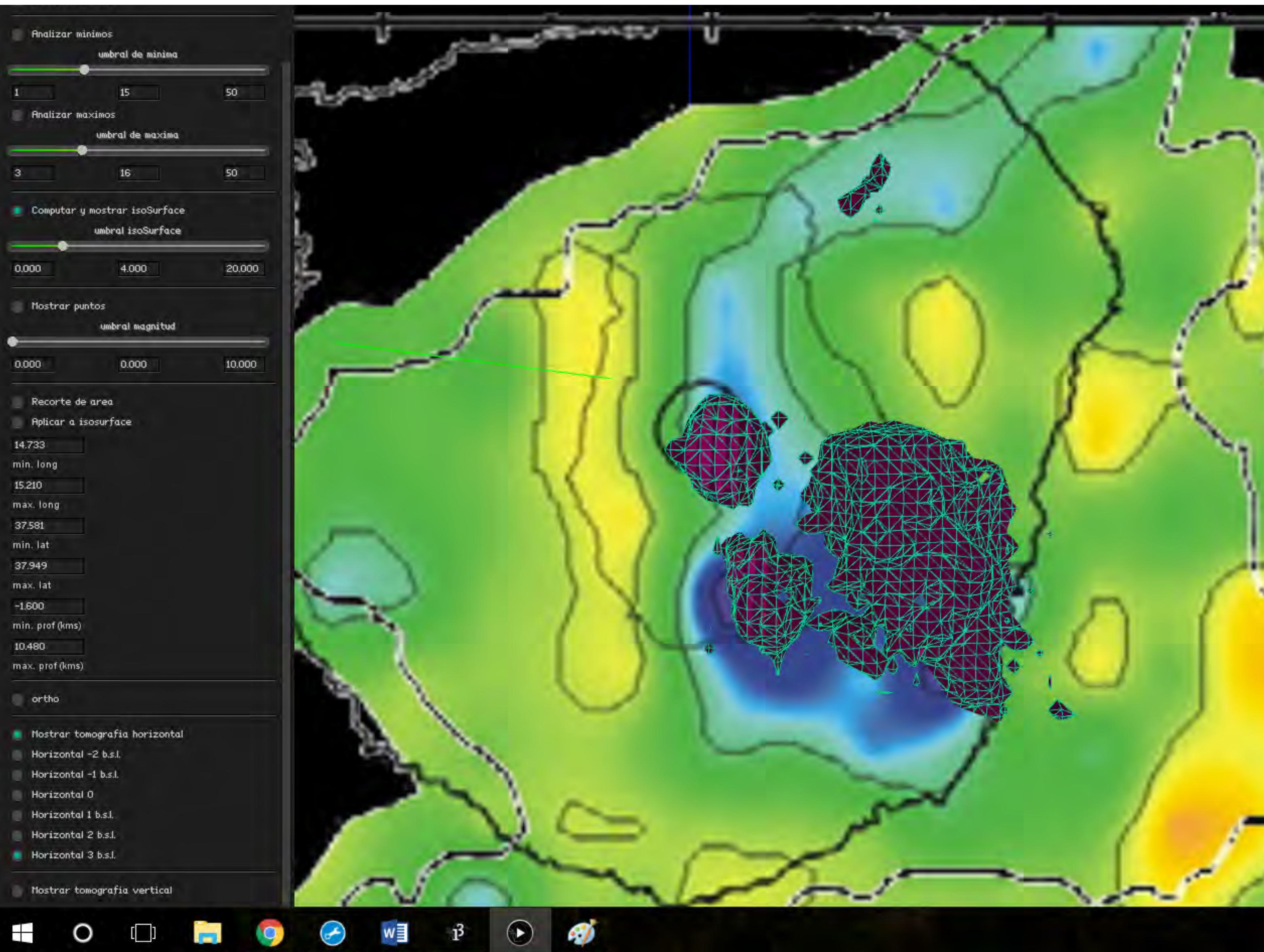


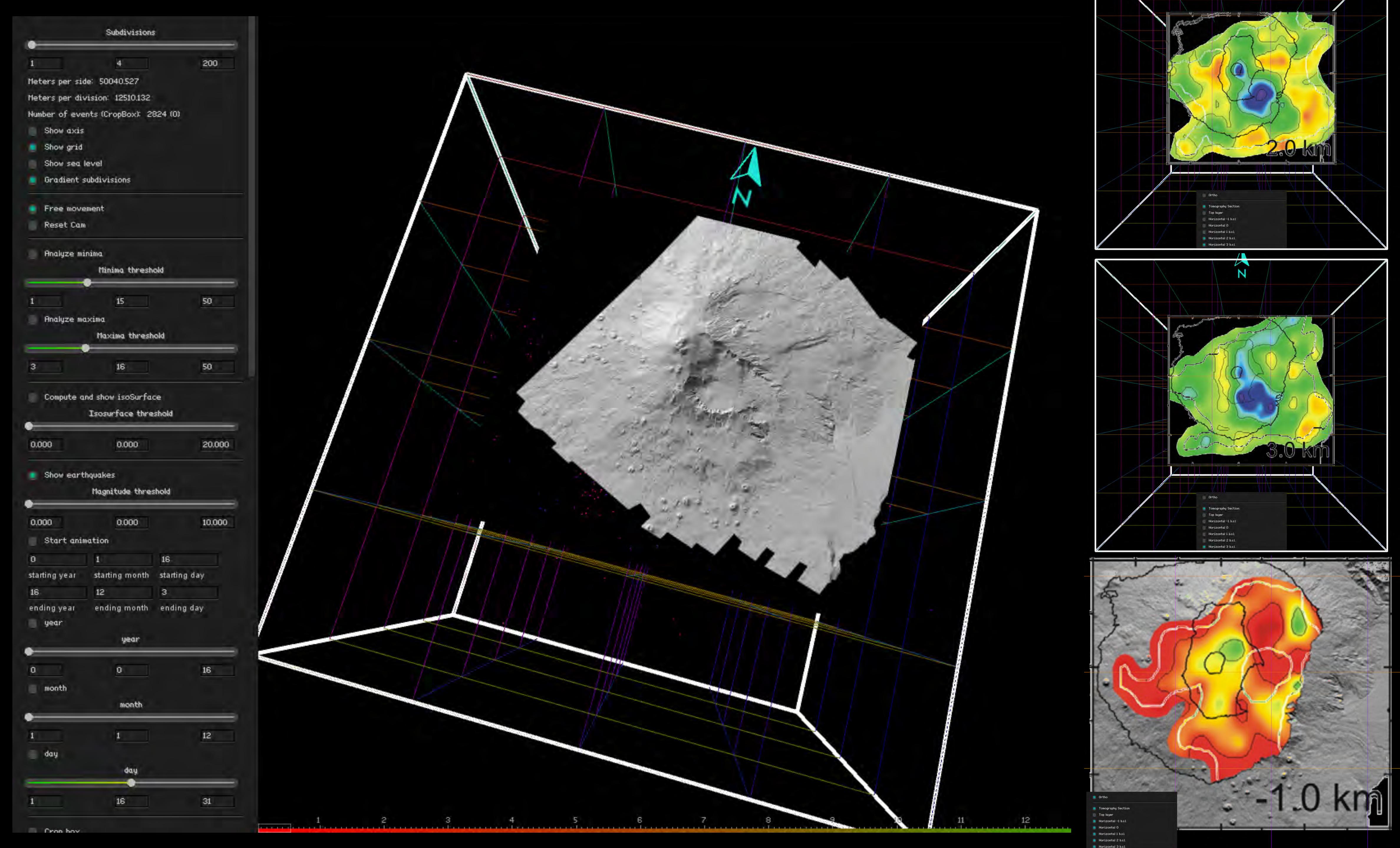
An open-source volcano oriented-GIS
that offers the possibility to analyze,
model and visualize volcano-related
data in a user-friendly high-resolution
visualization environment.



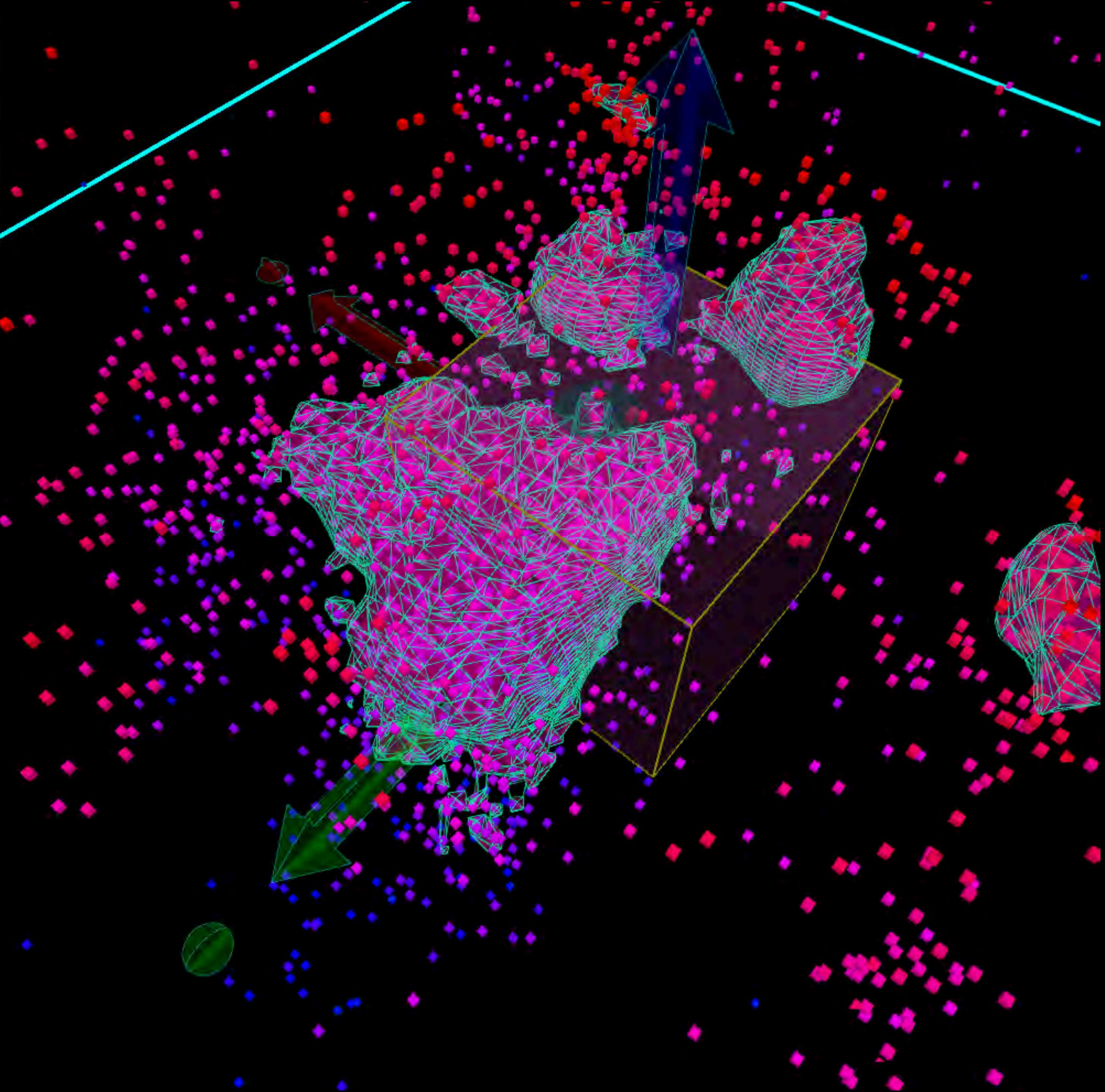
VolGIS: A volcano oriented GIS for multidisciplinary analysis.

FEATURES:
3D Environment
4D Analysis
Grid Subdivision
Earthquakes visualization
Earthquake Density Analysis
Import Maps: DEMS and raster images.

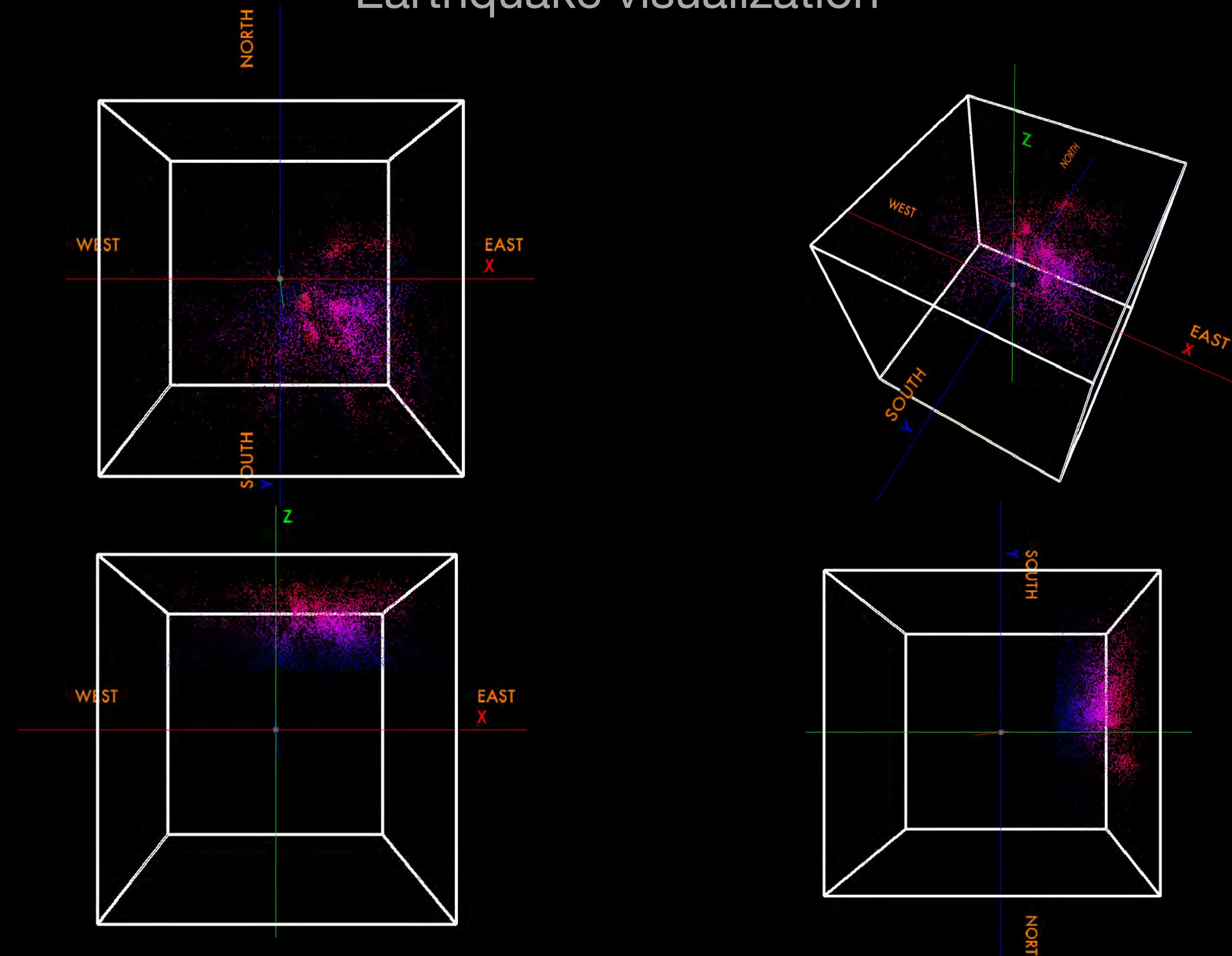


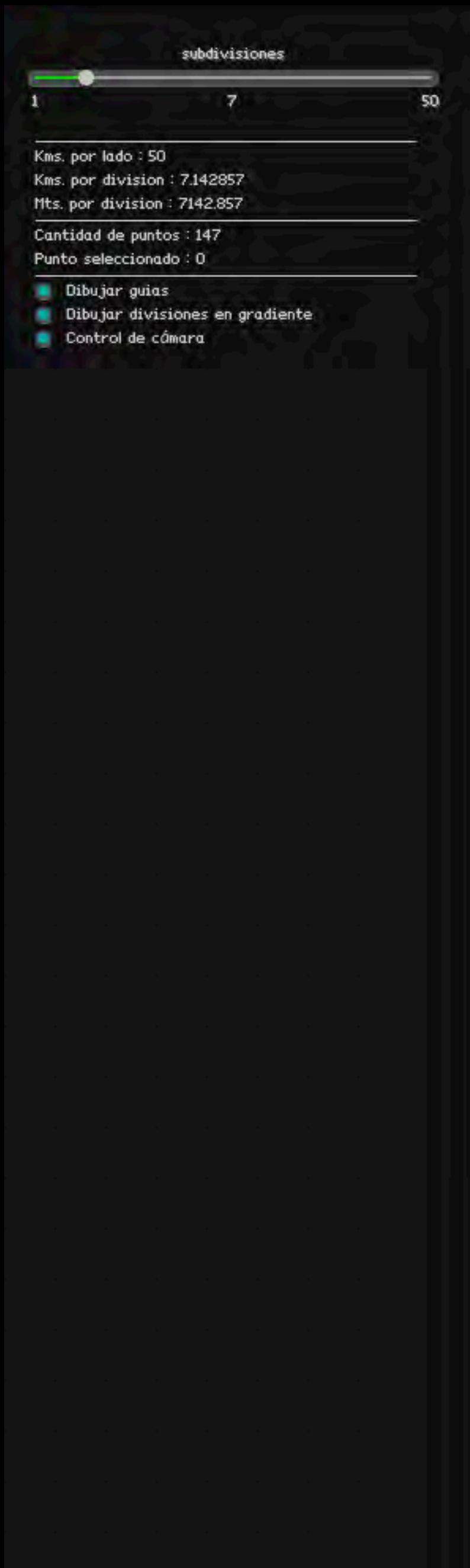


Isosurface generation using Marching Cubes MC Algorithm (used for modeling in 3D)

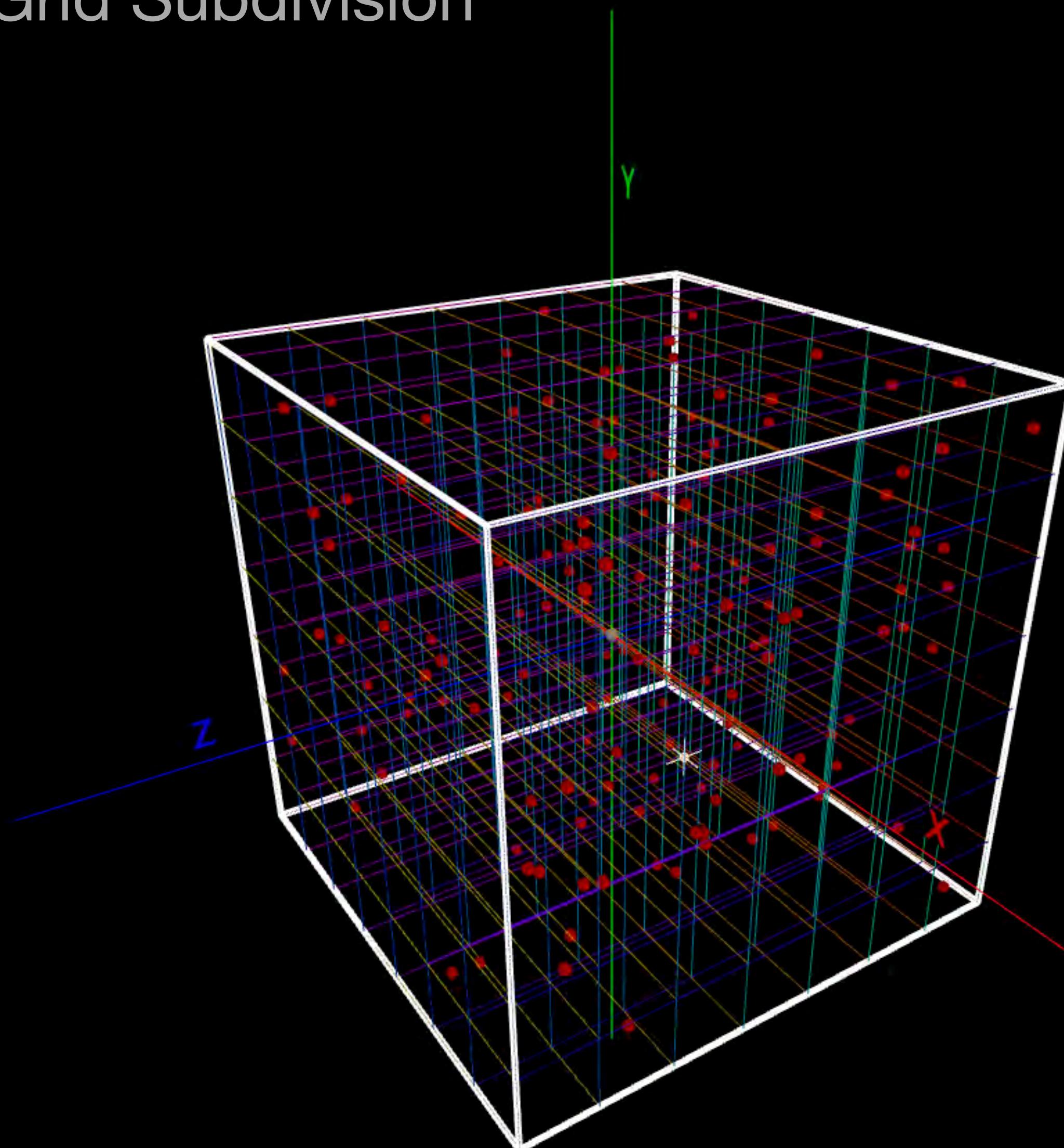


Earthquake visualization

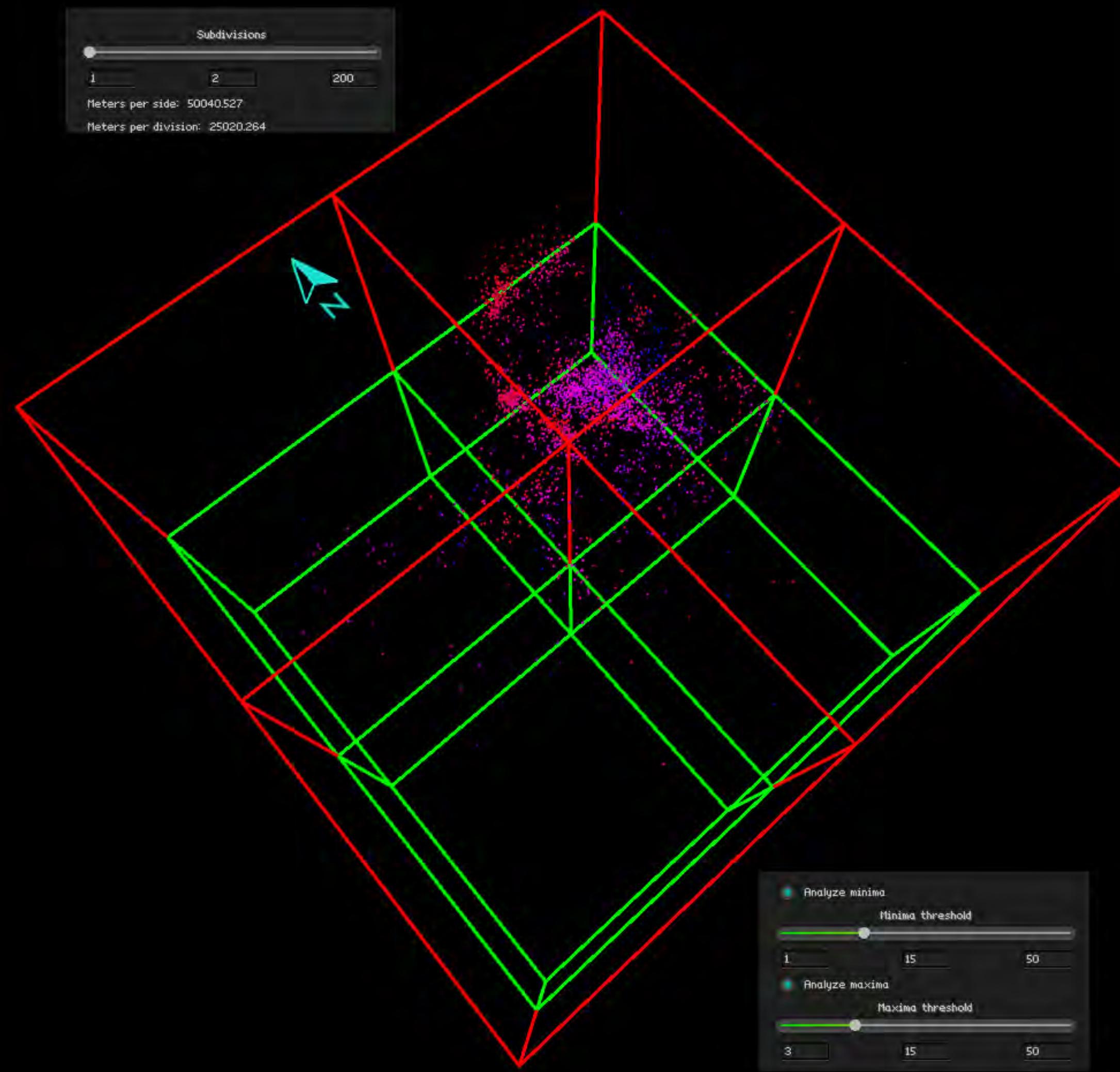




Grid Subdivision



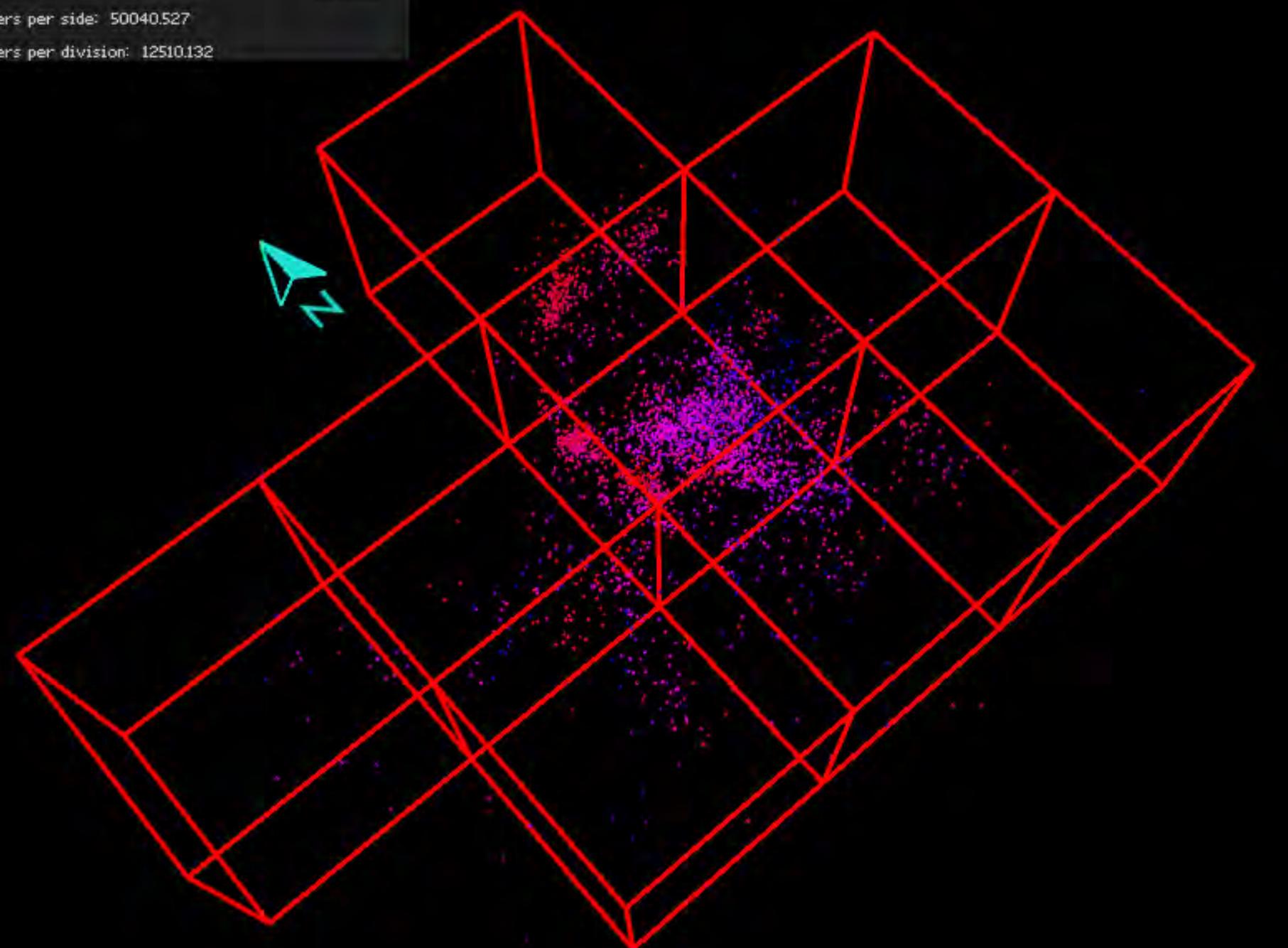
Density Analysis



Subdivisions

1 4 200

Meters per side: 50040.527
Meters per division: 12510.132



Analyze minima

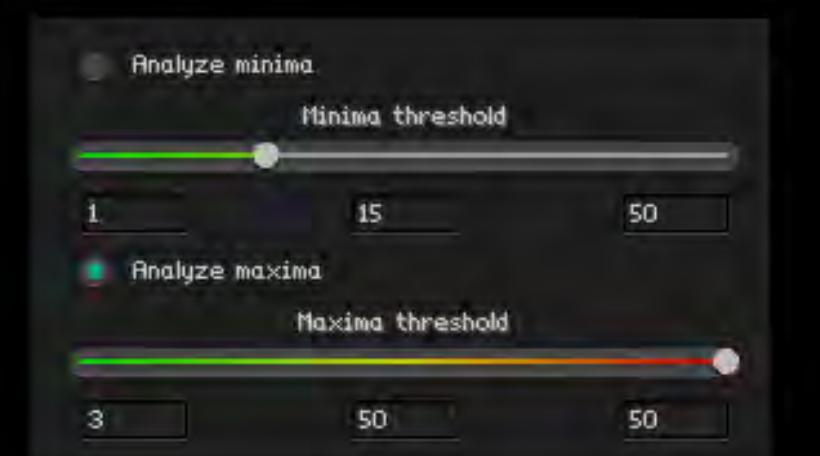
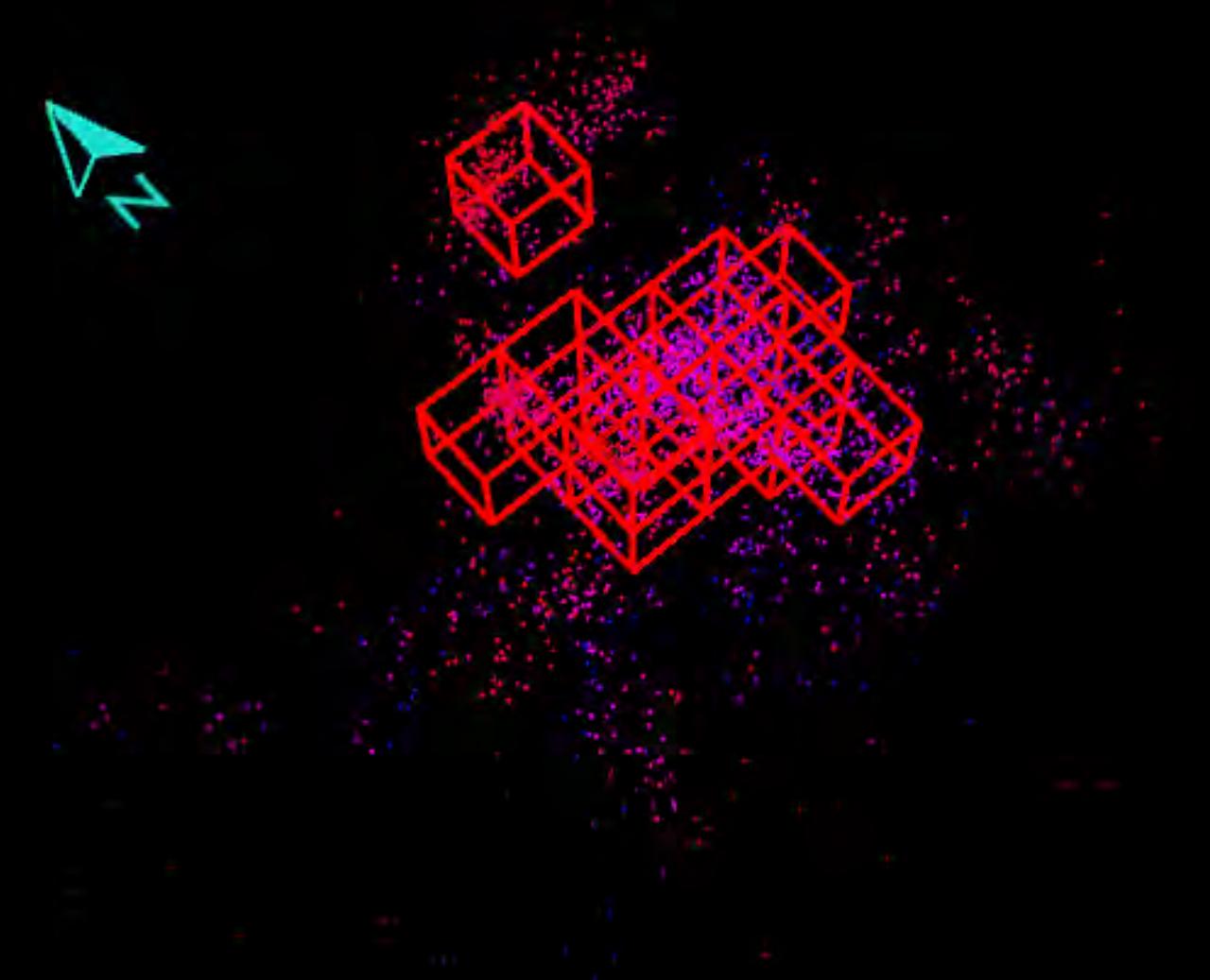
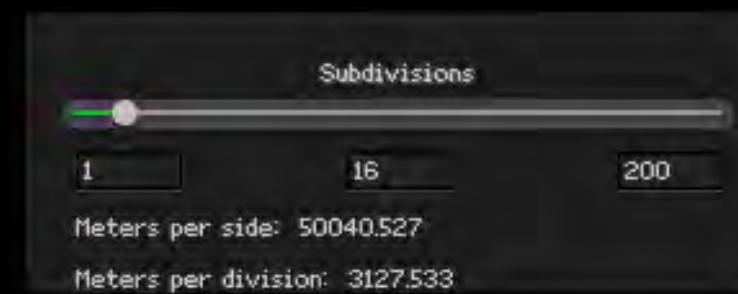
Minima threshold

1 15 50

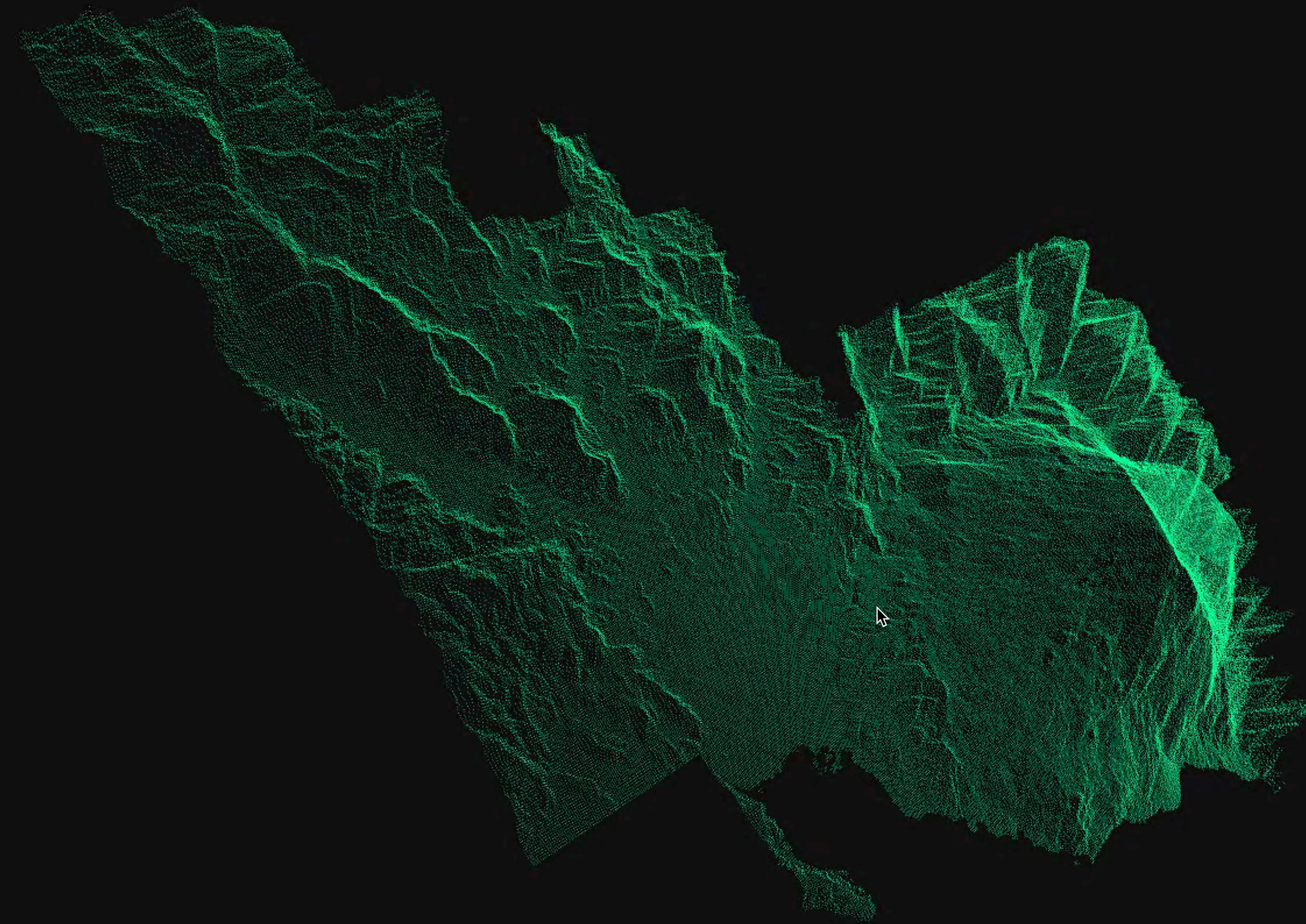
Analyze maxima

Maxima threshold

3 15 50



Etna Surface Test



Mt. Etna feeding system: a new 3D image constrained by earthquakes distribution and 3D modelling analysis in a customizable GIS.

R. Guardo^{a,d} (rguardo@unrn.edu.ar), A. Colubri^b, L. De Siena^c, C. Dreidemie^d

^a CONICET, Argentina; ^b Department of Organismic and Evolutionary Biology, Faculty of Arts and Sciences, Harvard University, Cambridge - USA / Broad Institute of Harvard and MIT Cambridge, USA;

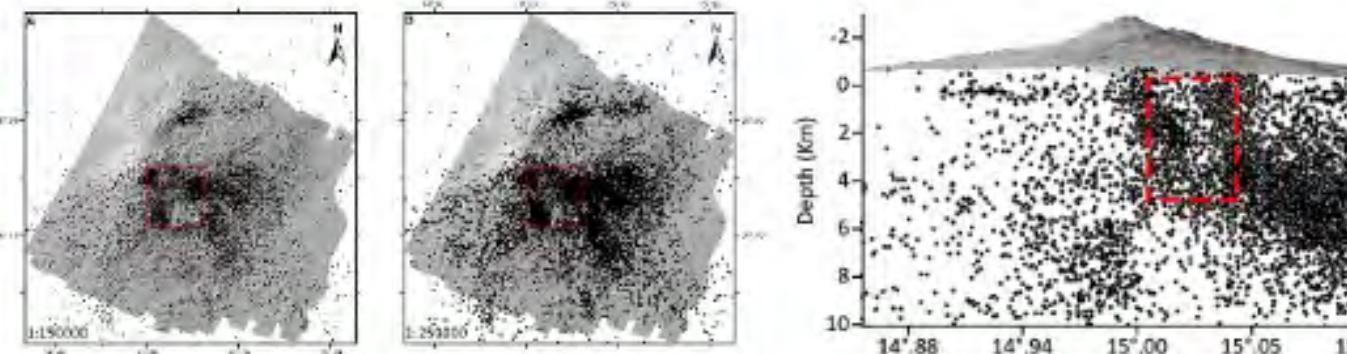
^c School of Geoscience, University of Aberdeen, UK; ^d Laboratorio de Visualización Gráfica y Código Creativo, Universidad Nacional de Río Negro, Argentina.

Aim

Constrain the feeding system of Mt. Etna using the 3D earthquakes distribution integrated with an experimental GIS: "VolGIS"

Data, Method and Analysis

A low seismicity volume is visible when plotting the hypocenter distribution recorded at Mt. Etna between 2000 and 2016.



To constrain the low seismicity volume we used the marching cube (MC) algorithm, commonly used in medical imaging and computer graphics, in the framework of a novel volcano-oriented GIS (VolGIS).

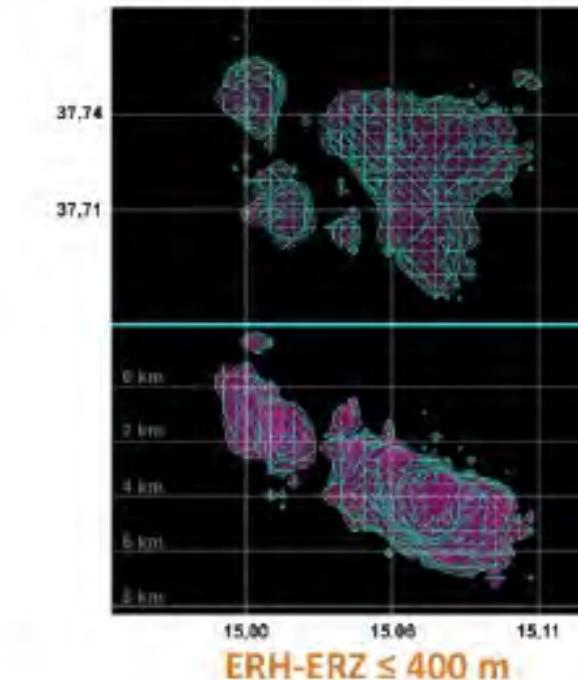
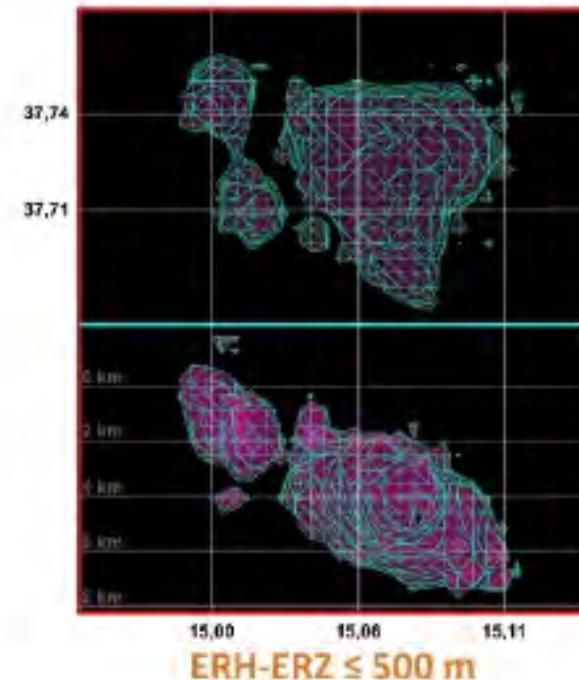
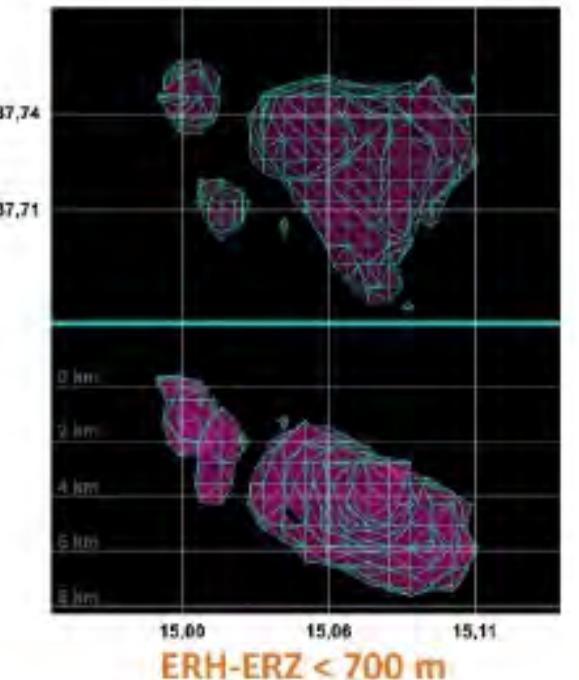
How does MC works?

Given a point cloud and a grid, the contribution of each point in the cloud to the vertices of the grid is computed using an inverse of the distance dependency. This result in a scalar field defined over the grid vertices i , by adding up all the cloud points j :

$$W(i) = \sum_j \frac{1}{d(i,j)^2}$$

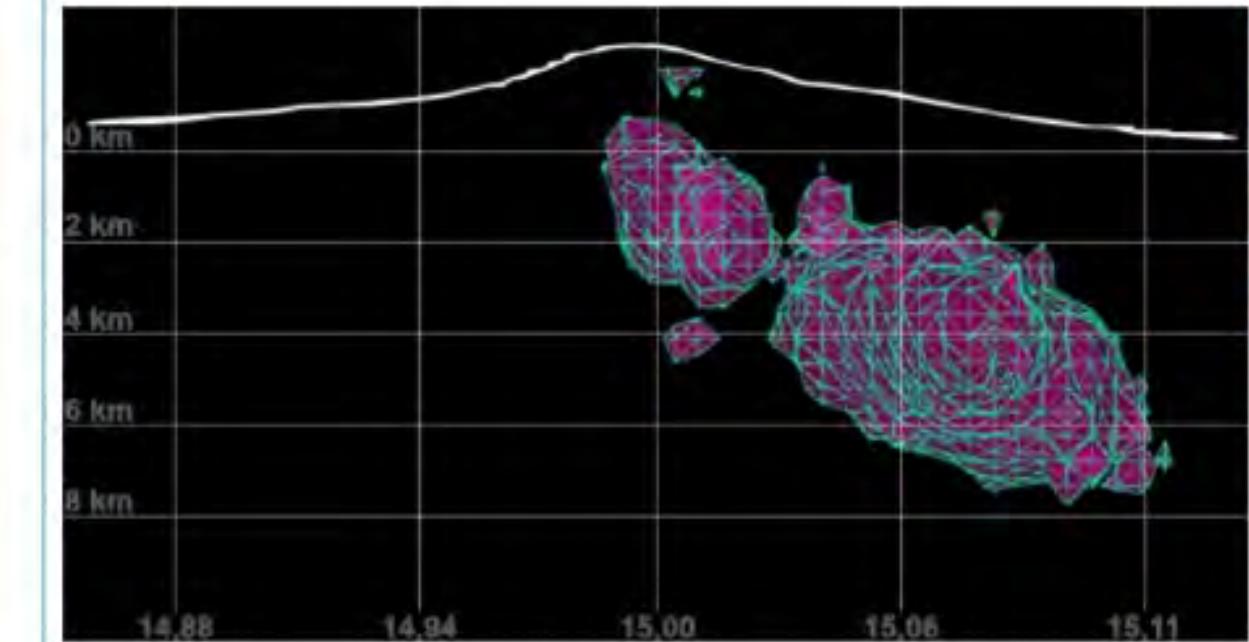
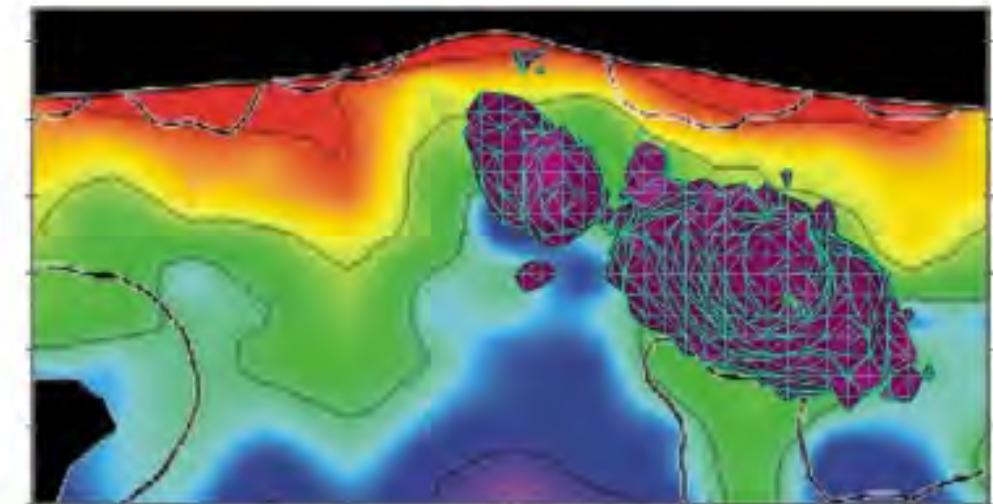
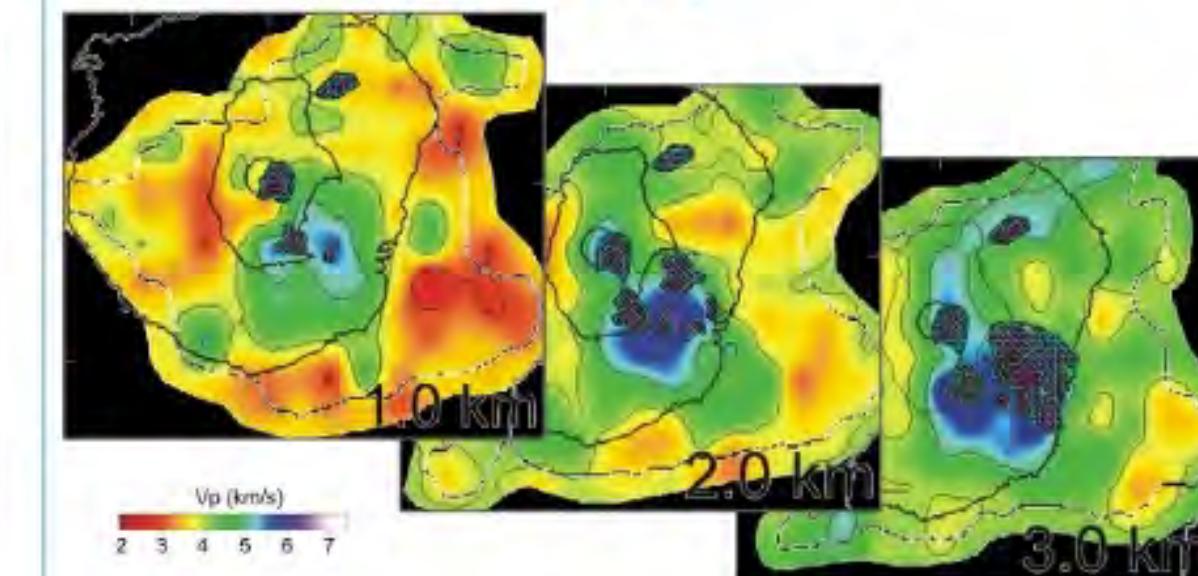
A threshold value T is chosen to assign: 1 to each vertex in the grid if $W(i) > T$, 0 otherwise.

We select three datasets, depending on the earthquake localisation error (ERH and ERZ) obtaining high-seismicity patterns that maintain their shape and position when using the MC algorithm.



Results and Conclusions

The high-seismicity bodies correspond to a high-Vp body (P-wave velocity of about 6 km/s) detected by all the tomographic studies performed at Etna since 1998 (in the figures we use the maps of Alparone et al. 2012).



Both the bodies and the aseismic volumes located west of them are interpreted as a portion of the feeding system, where the rocks pass from a brittle fracture to a plastic deformation system. The clusters highlight a sliding plane with a dip angle of ~30° (mainly located below the Valle del Bove area).

Given their shape and position, an interpretation in terms of magmatic intrusions confirms their implications for the flank instability, proposed by previous authors (e.g. Murray et al. 2018).

We conclude that the MC algorithm supports an interpretation beyond the resolution of tomographic imaging, which is often affected by irregular sampling and interpolation process.



Sueñan las Ovejas con androides eléctricos?

Agustina di Virgilio*, Karina F. Laneri †, Pablo M. Gleiser †, Juan Manuel Morales*, Carola Dreidemie *

* Laboratorio ECOTONO, INIBIOMA-CONICET, Univ. Nac. del Comahue, CCT Patagonia Norte, Av. de Los Pioneros 2350, Bariloche, Río Negro, Argentina.

† Grupo de Física Estadística e Interdisciplinaria, Centro Atómico Bariloche CAB-CONICET, Av. Bustillo 5900, Bariloche, Río Negro, Argentina.

‡ CPCa Centro de producción de contenidos audiovisuales, Universidad Nacional de Río Negro UNRN, Villegas 147, Bariloche, Argentina.

Resumen:

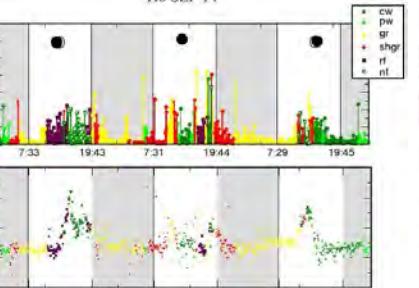
El uso de los recursos naturales por el ganado plantea el problema de cuáles son las tasas de utilización que permiten un desarrollo sustentable. Este es un problema complejo donde intervienen un gran número de factores extrínsecos tales como la heterogeneidad del terreno, los tipos de vegetación y los cambios ambientales, e intrínsecos tales como las necesidades energéticas del animal de acuerdo a su actividad. En este contexto analizamos cuantitativamente el comportamiento de 15 ovejas en una estancia de la estepa patagónica. Cada oveja se equipó con un dispositivo de GPS que permite su localización espacial en el terreno. A partir de los datos obtenidos a lo largo de dos meses de monitoreo se identificaron patrones de actividad para hembras, borregos, capones y un perro pastor. Los resultados muestran que dichos patrones están regulados principalmente por la presencia de luz, tanto del sol como de las diferentes fases de la luna.

Resultados: altura y distancias recorridas

Luna Nueva:

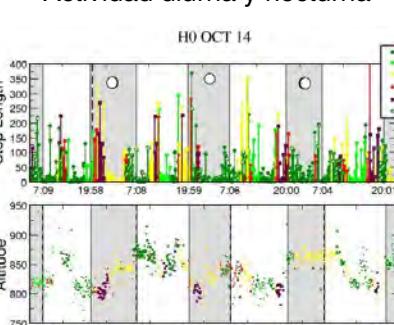
Actividad sincronizada
Actividad diurna: patrón triangular

HO SEP 14



Luna Llena:

Actividad individual
Actividad diurna y nocturna

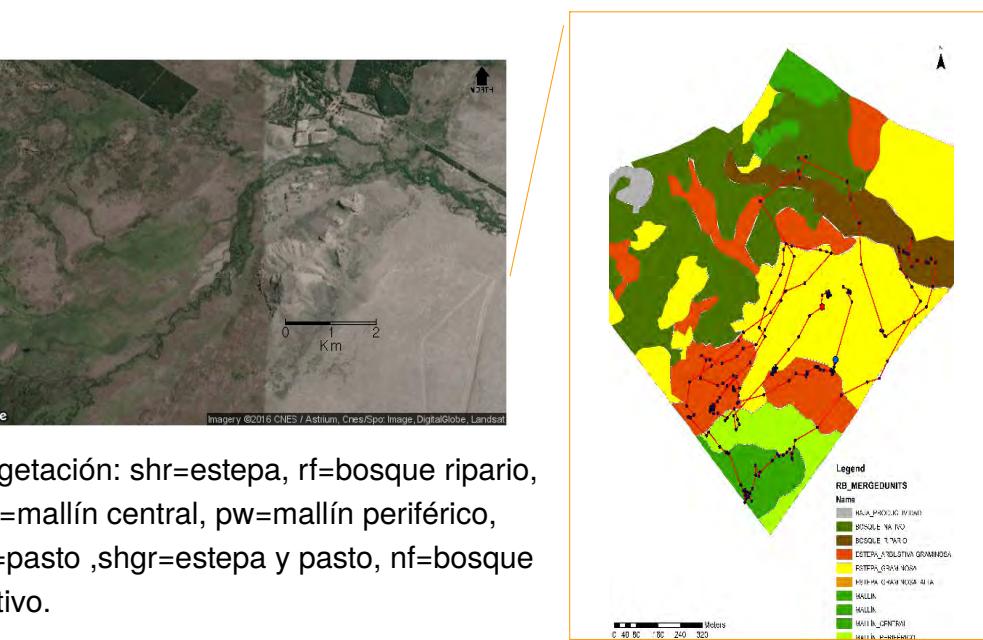


Adquisición de datos



Se colocaron collares GPS que permiten obtener datos de posición de alta resolución espacial durante 6 meses, con una resolución temporal de 5 minutos. Se monitorearon 15 ovejas (5 hembras, 5 capones, 5 borregos) y un perro pastor, de un total de 200 ovejas.

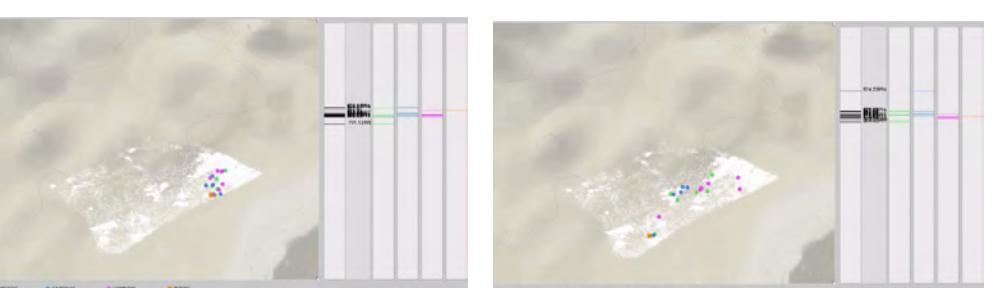
Cuadro de monitoreo



Vegetación: shr=estepa, rf=bosque ripario,
cw=mallín central, pw=mallín periférico,
gr=pasto, shgr=estepa y pasto, nf=bosque
nativo.

Resultados: Visualización

Se realizó un video para estudiar la dinámica espacio-temporal de las ovejas.



Conclusiones:

Se observó un comportamiento rítmico de las ovejas influenciado por la luz:

- En las noches oscuras de luna nueva las ovejas disminuyen su actividad y duermen a bajas alturas.
- En las noches de luna llena las ovejas están más activas y siguen un patrón de tipo escalón.

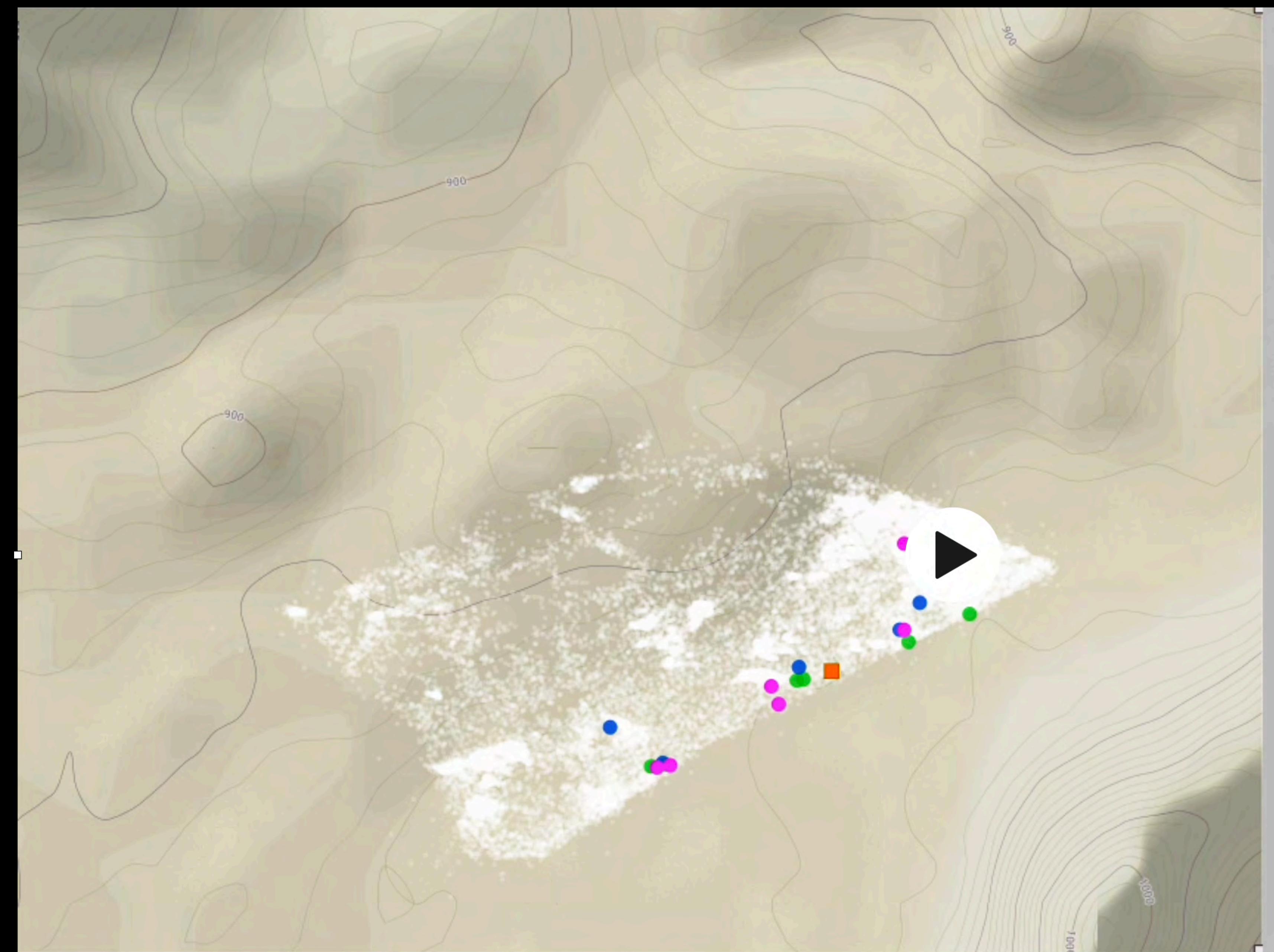
Nuevas preguntas:

Cómo de relaciona el patrón de alimentación con los patrones de actividad?

Cómo se relaciona el patrón de actividad con los mecanismos de compensación del sueño?

Referencias

- [1] Giraudet, C. 2009. El empleo de la condición corporal como indicador del estado nutricional de los ovinos. Presencia 54:32-35.
- [2] Morales, J. M., P. R. Moorcroft, J. Matthiopoulos, J. L. Frair, J. K. Kie, R. A. Powell, E. H. Merrill, y D. T. Haydon. 2010. Building the bridge between animal movements and population dynamics. Philosophical Transactions of the Royal Society B. Biological Sciences 375:2289-2301.

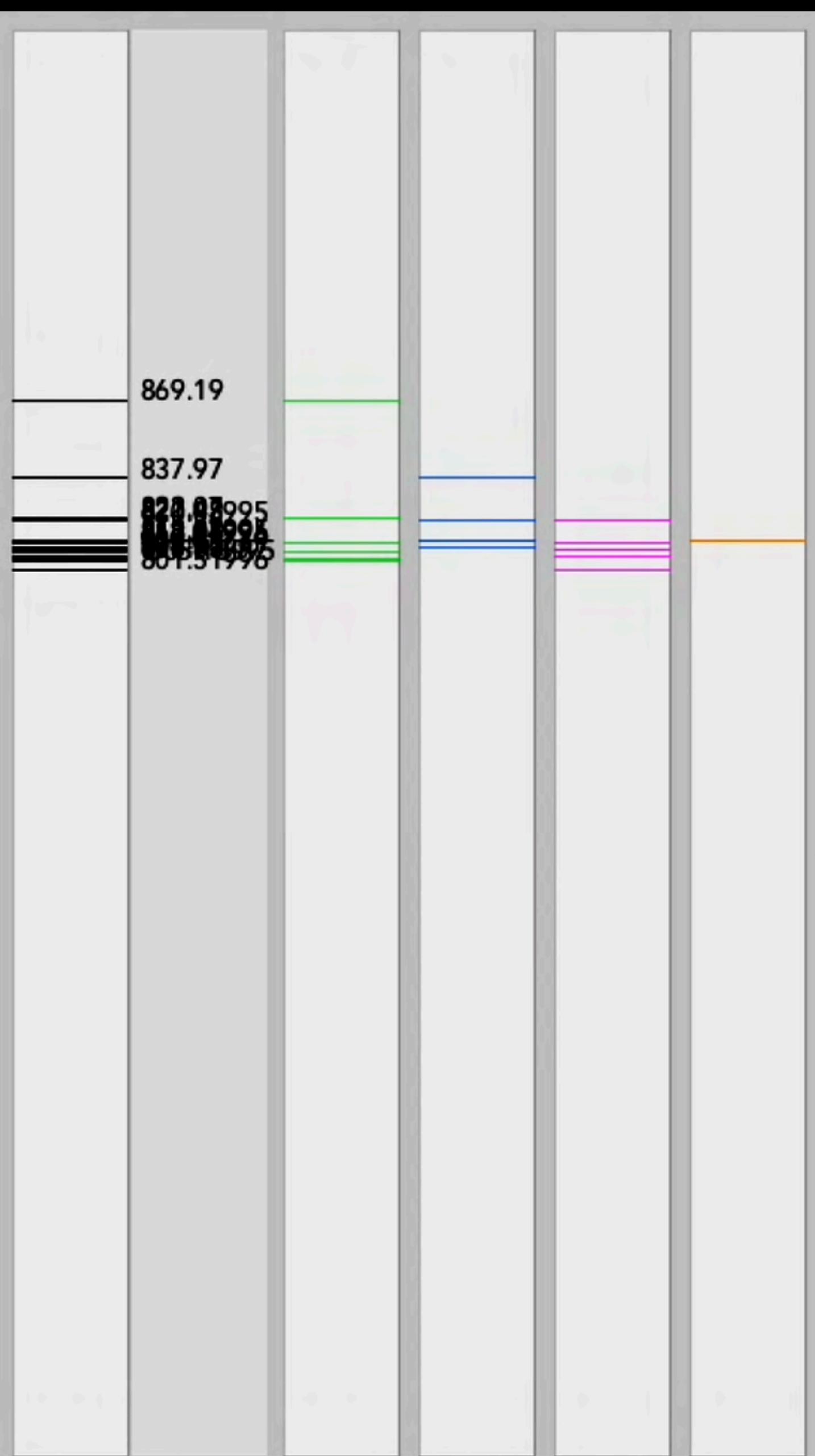


● BORREGOS

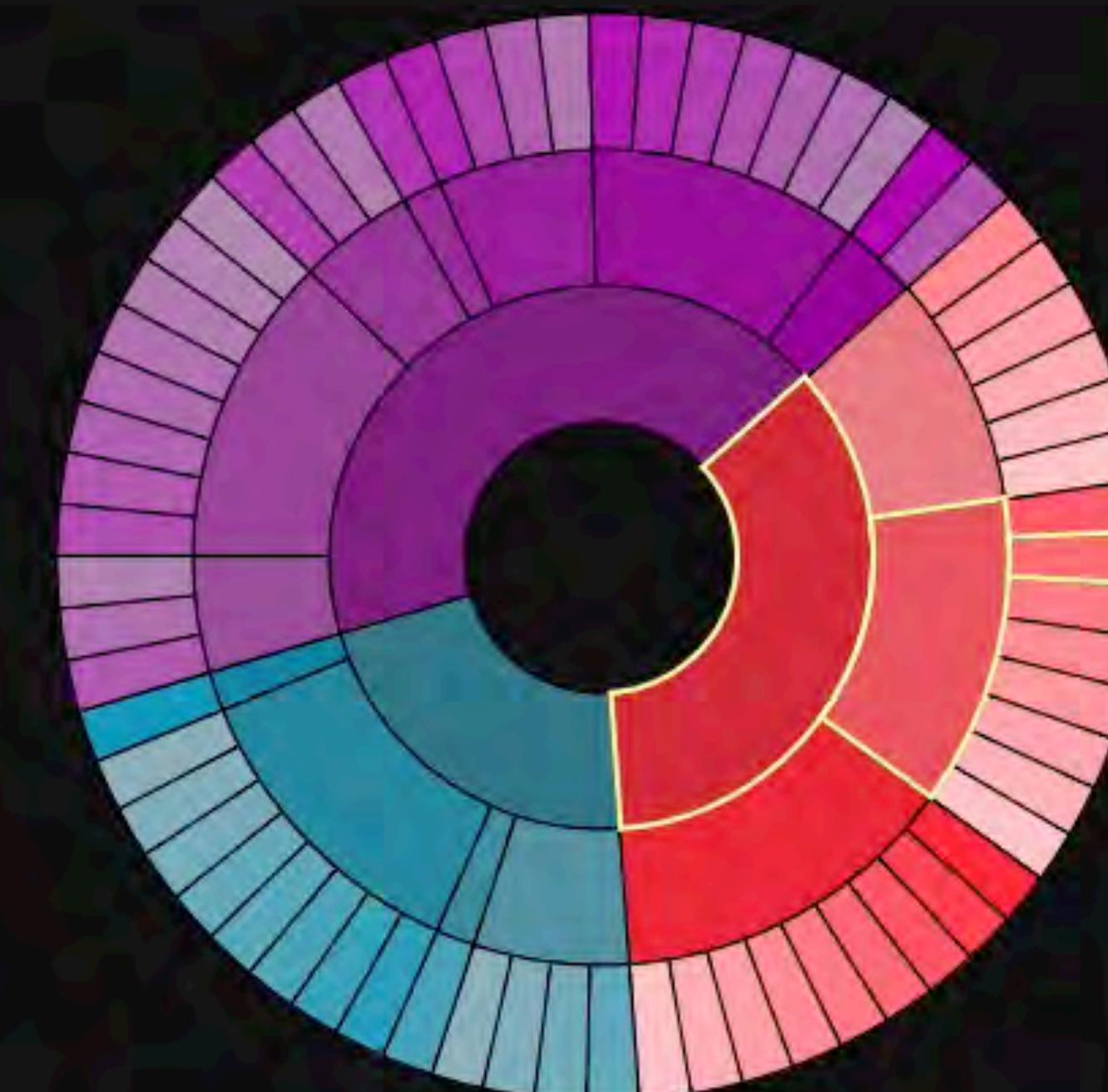
● CAPONES

● HEMBRAS

■ PERRO



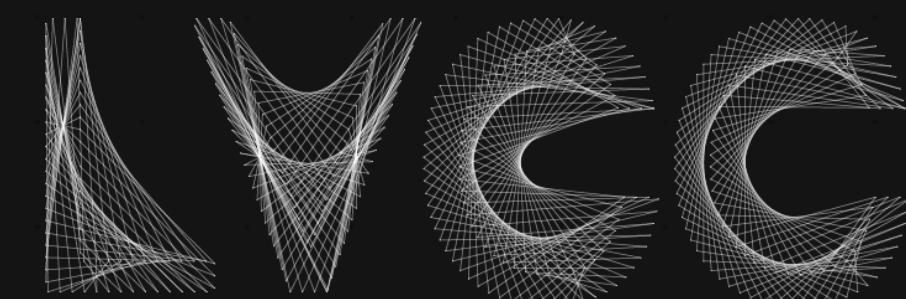
 Búsqueda



Licenciatura En Ciencias Antropológicas

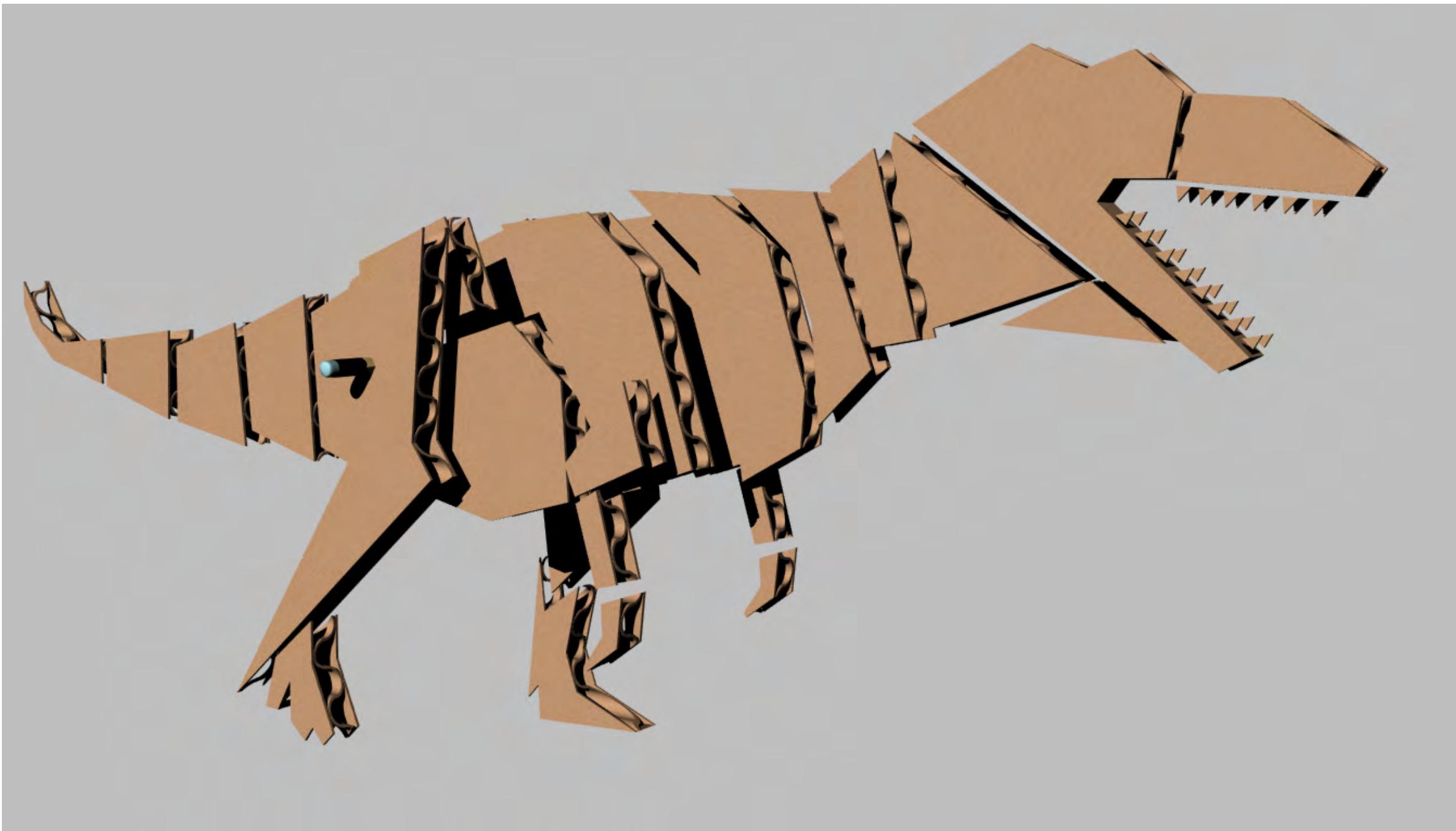
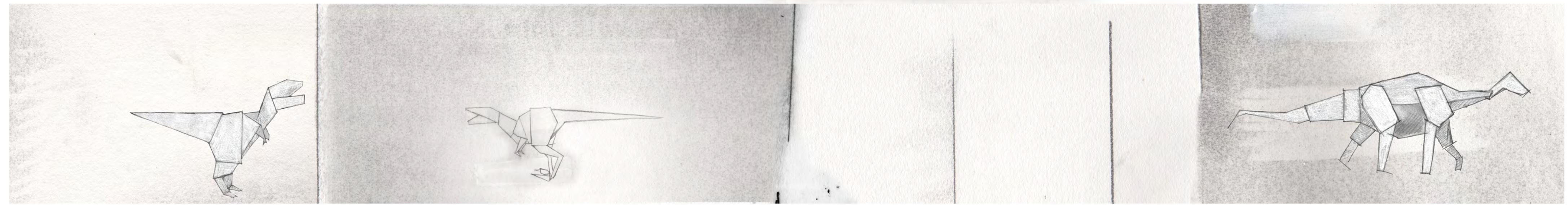
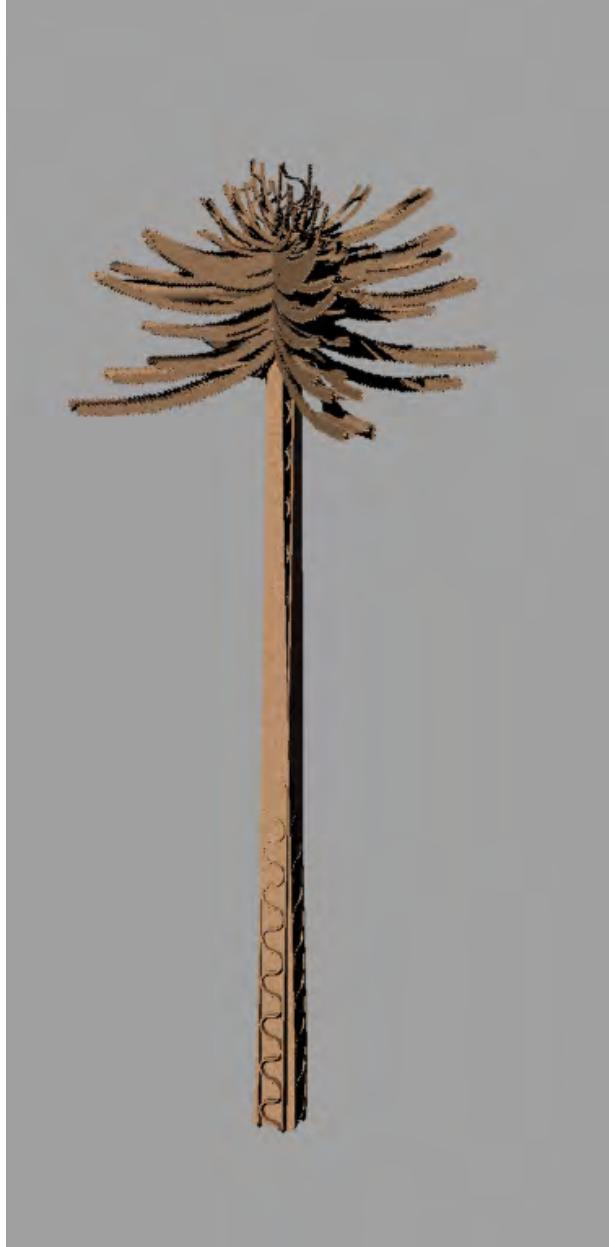
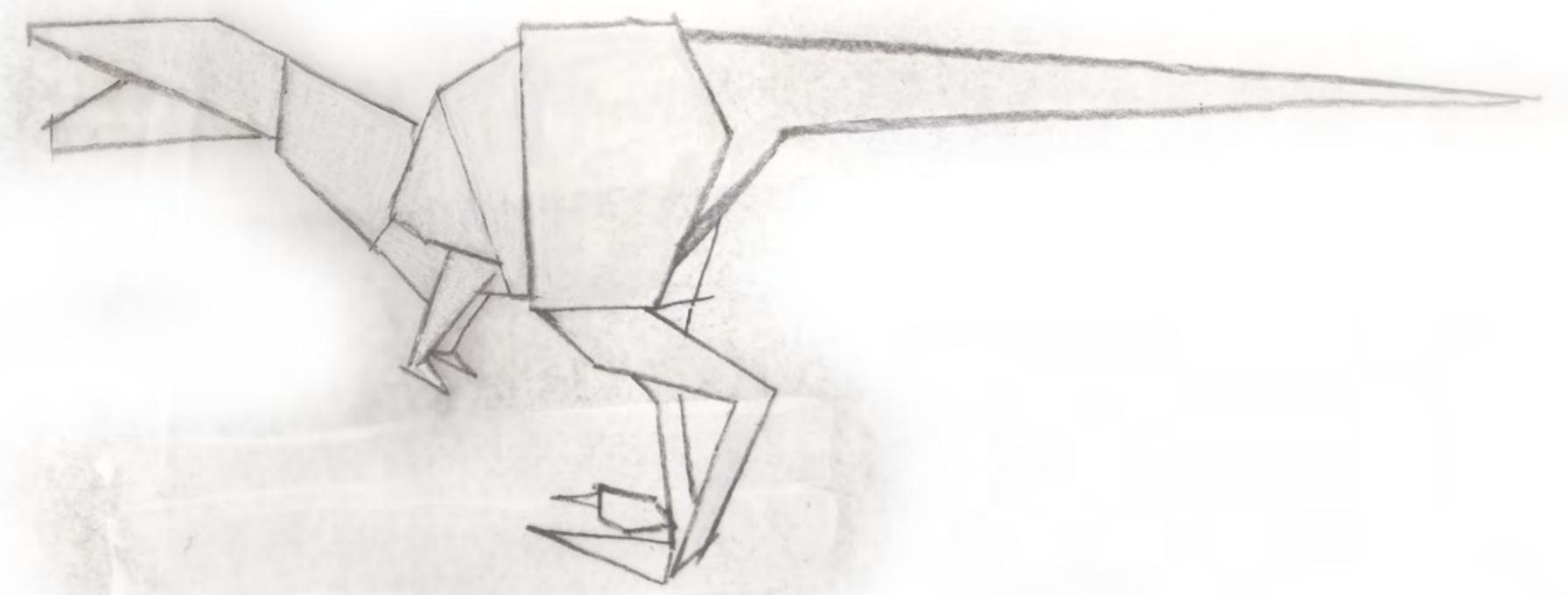
Escuela De Humanidades Y Estudios Sociales

Sede Andina



Laboratorio de ID+i Visualización y Código Creativo

Hand drawings and
Modeling in Blender & Solidworks
3D CAD Design for TV Series



Interactive Typography for Series titles

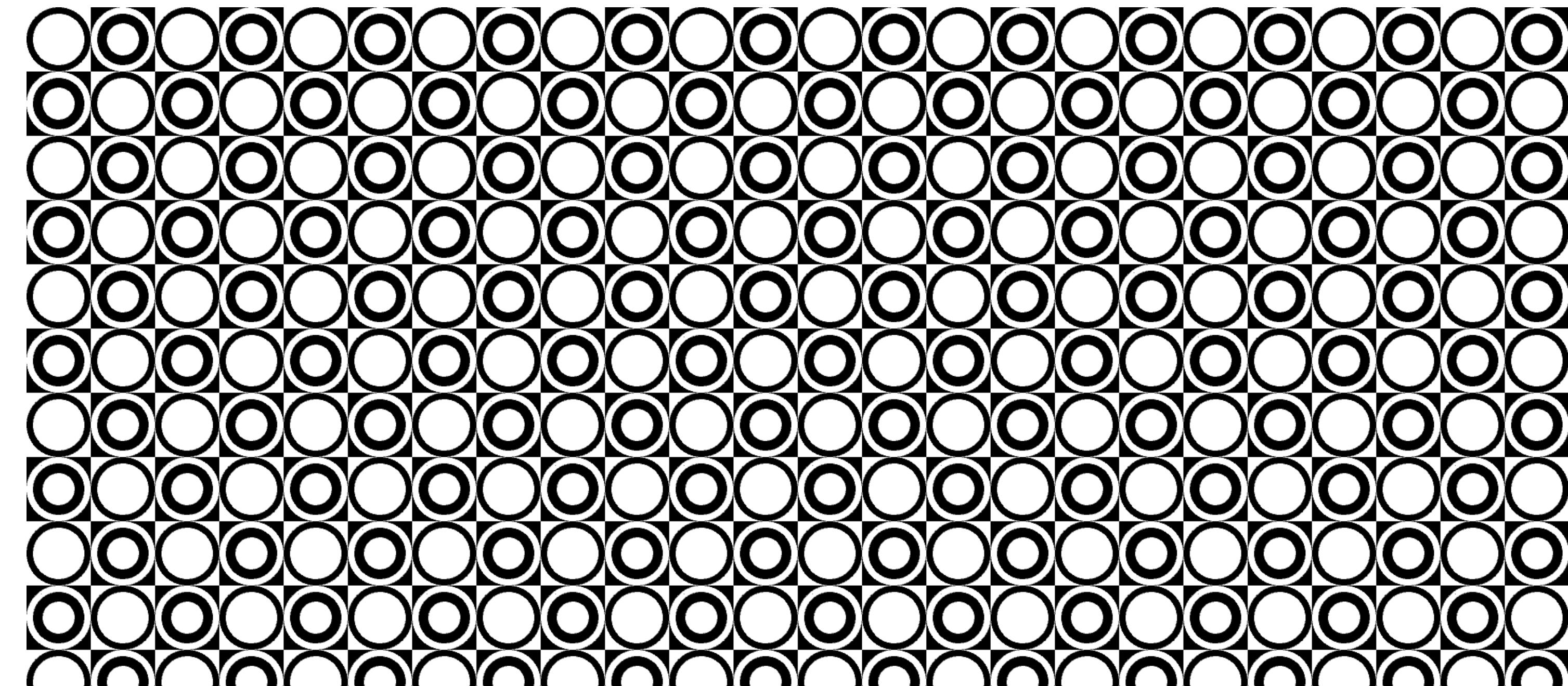
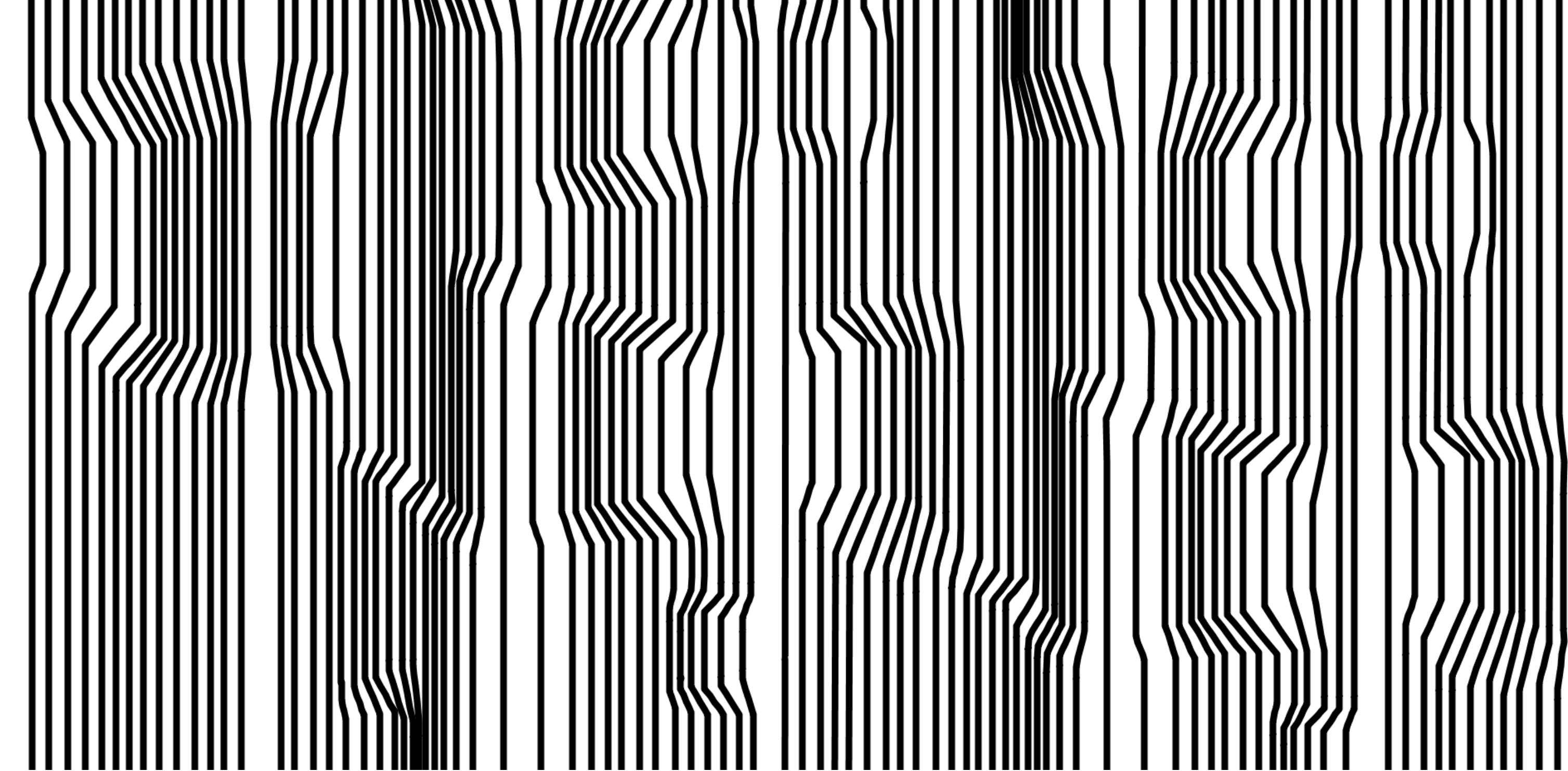
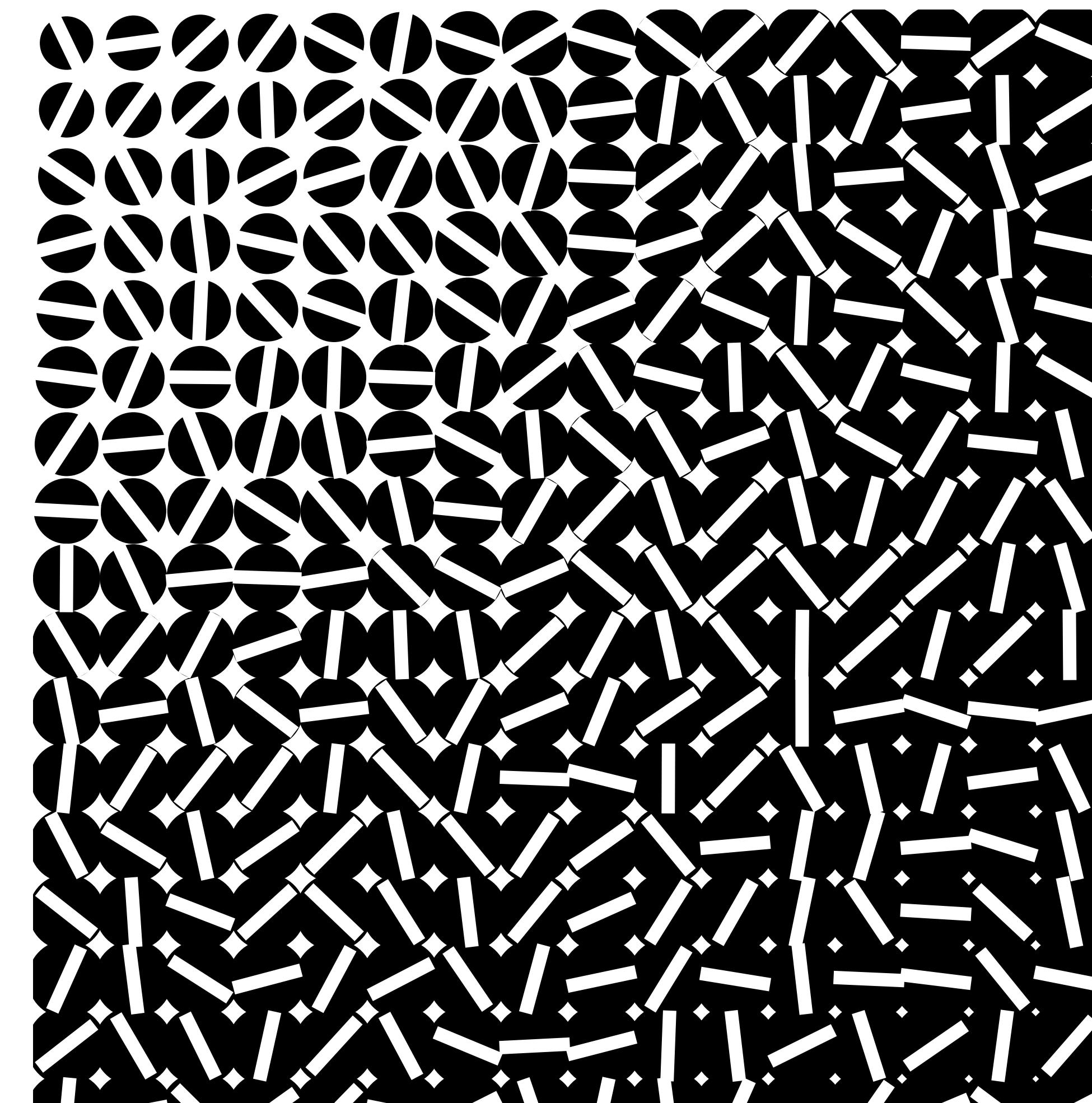
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word_writer_02

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3 float s
4 PGraphi
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11 fondo
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13 g = c
14 scale
15 w = n
16
17 String
18 int x
19 int y
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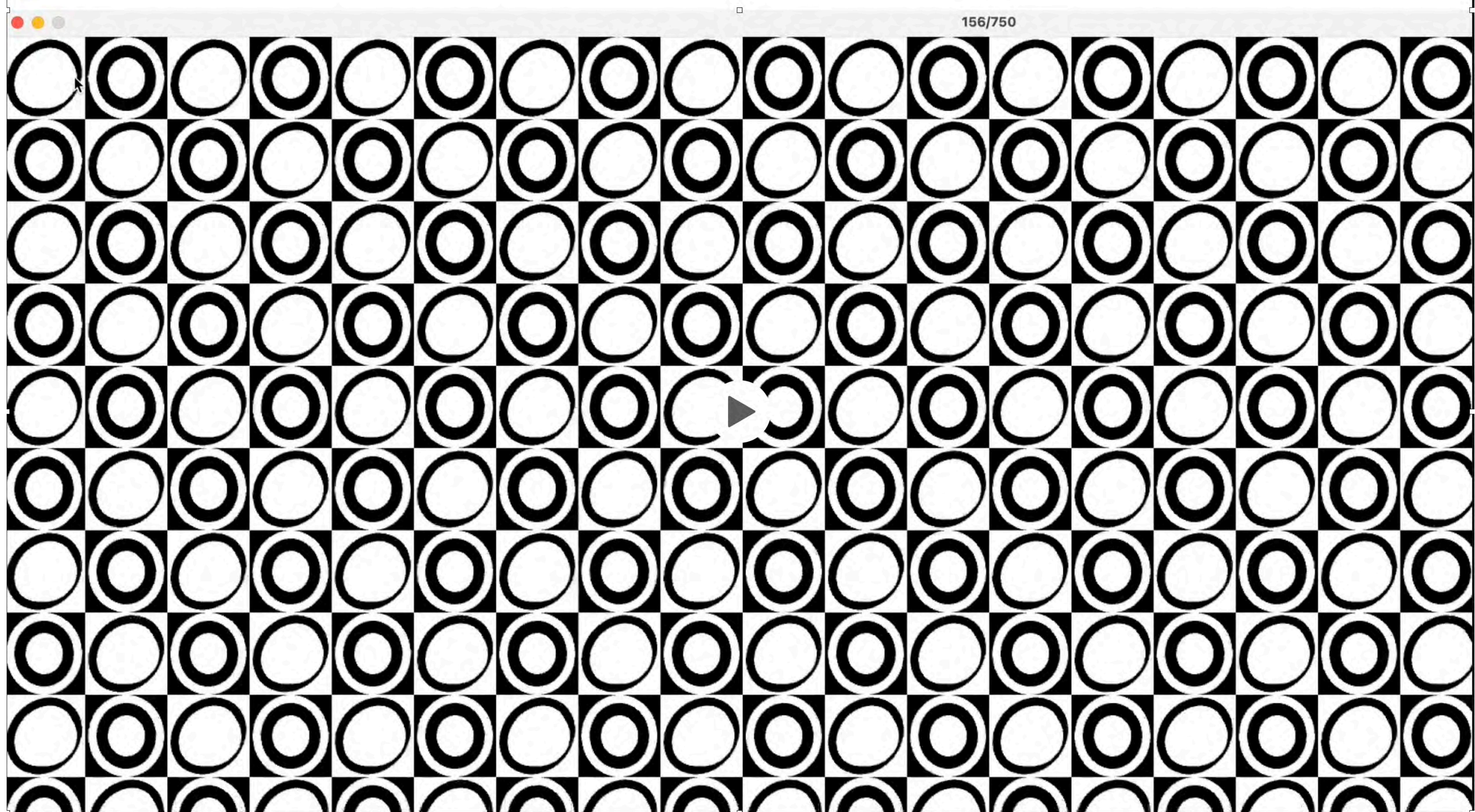


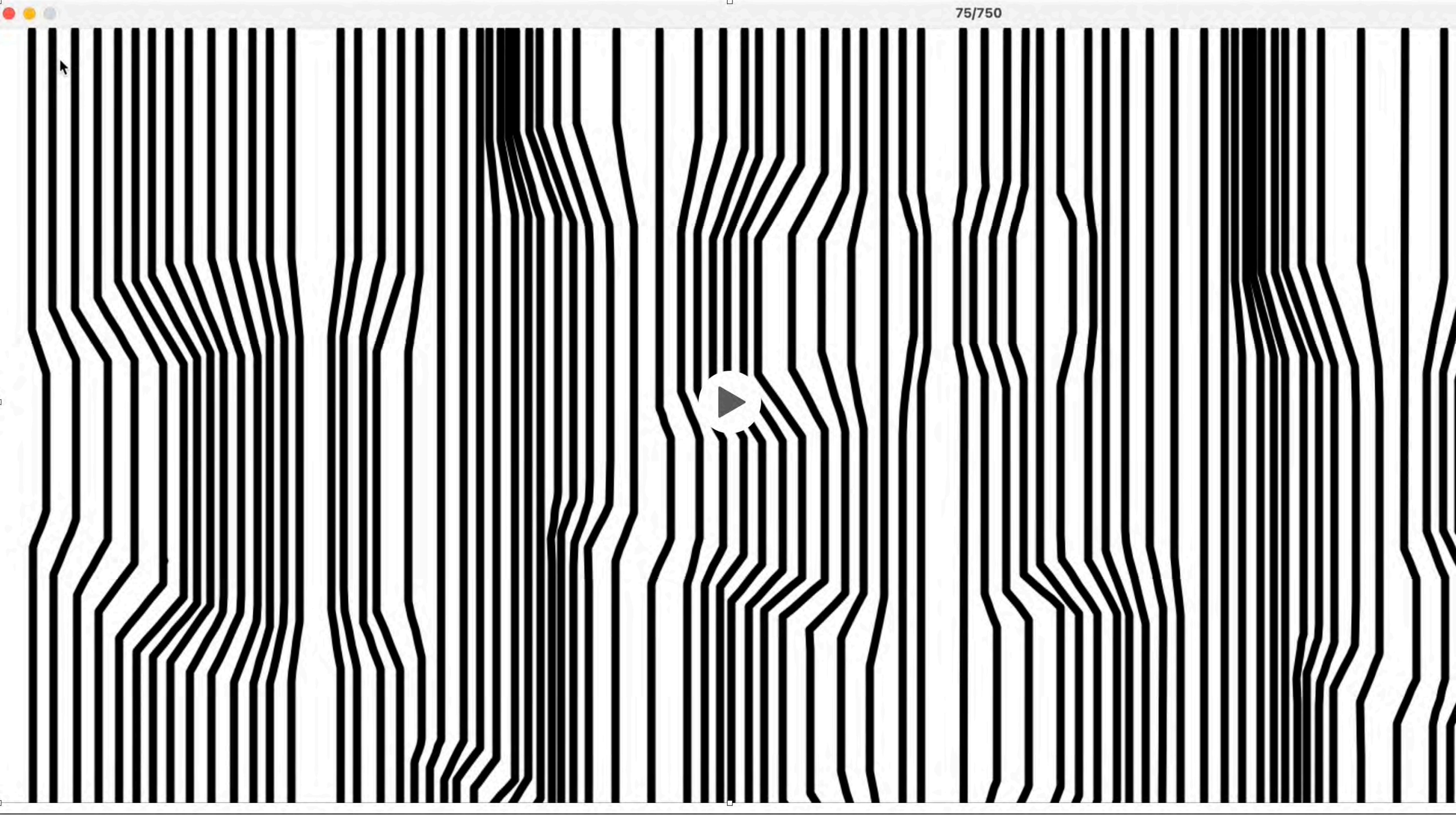
Pattern Design for background in TV Documentary:
“Historia del Sistema Universitario Argentino”

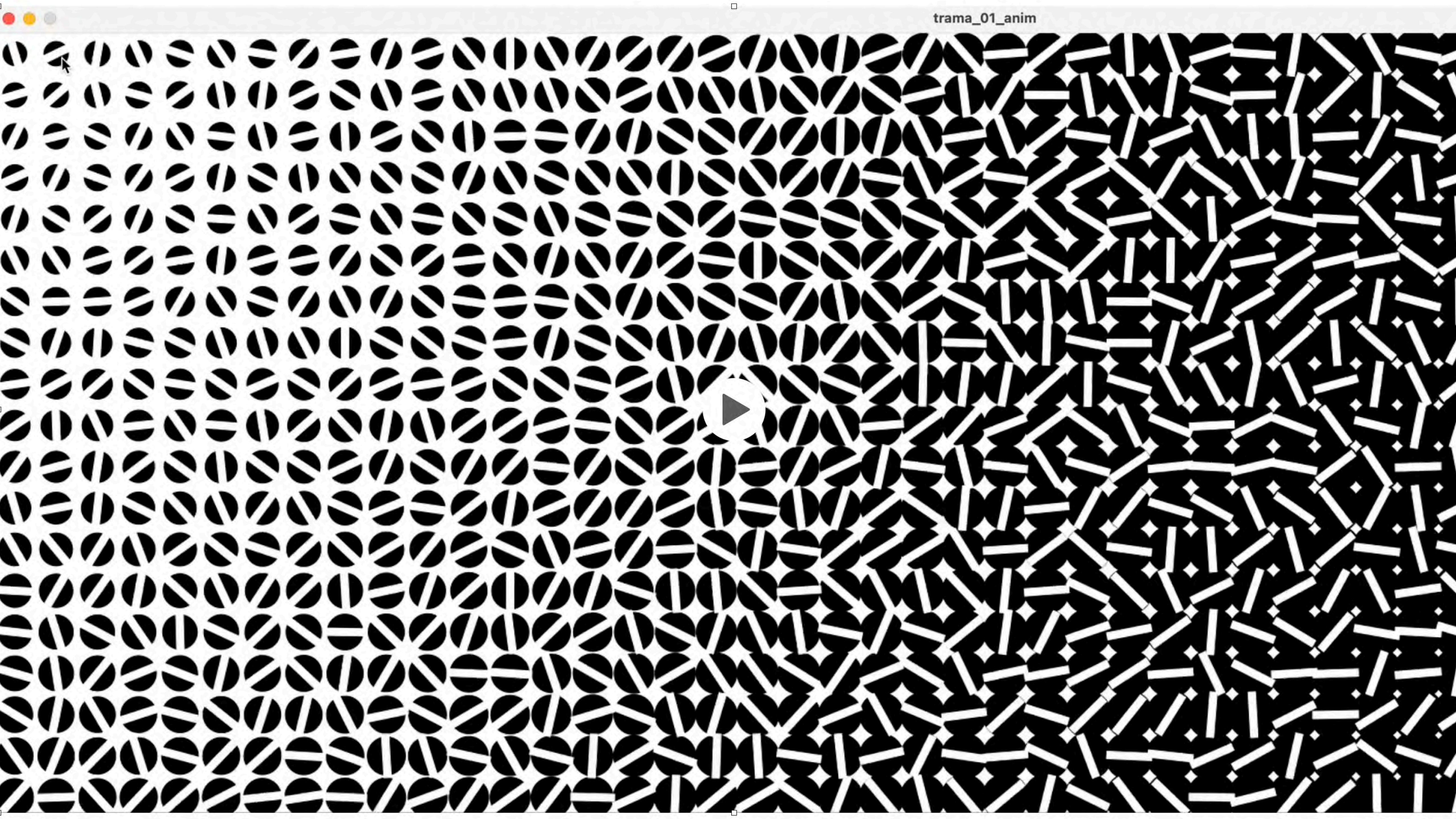
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Media exports with transparency for multimedia use.

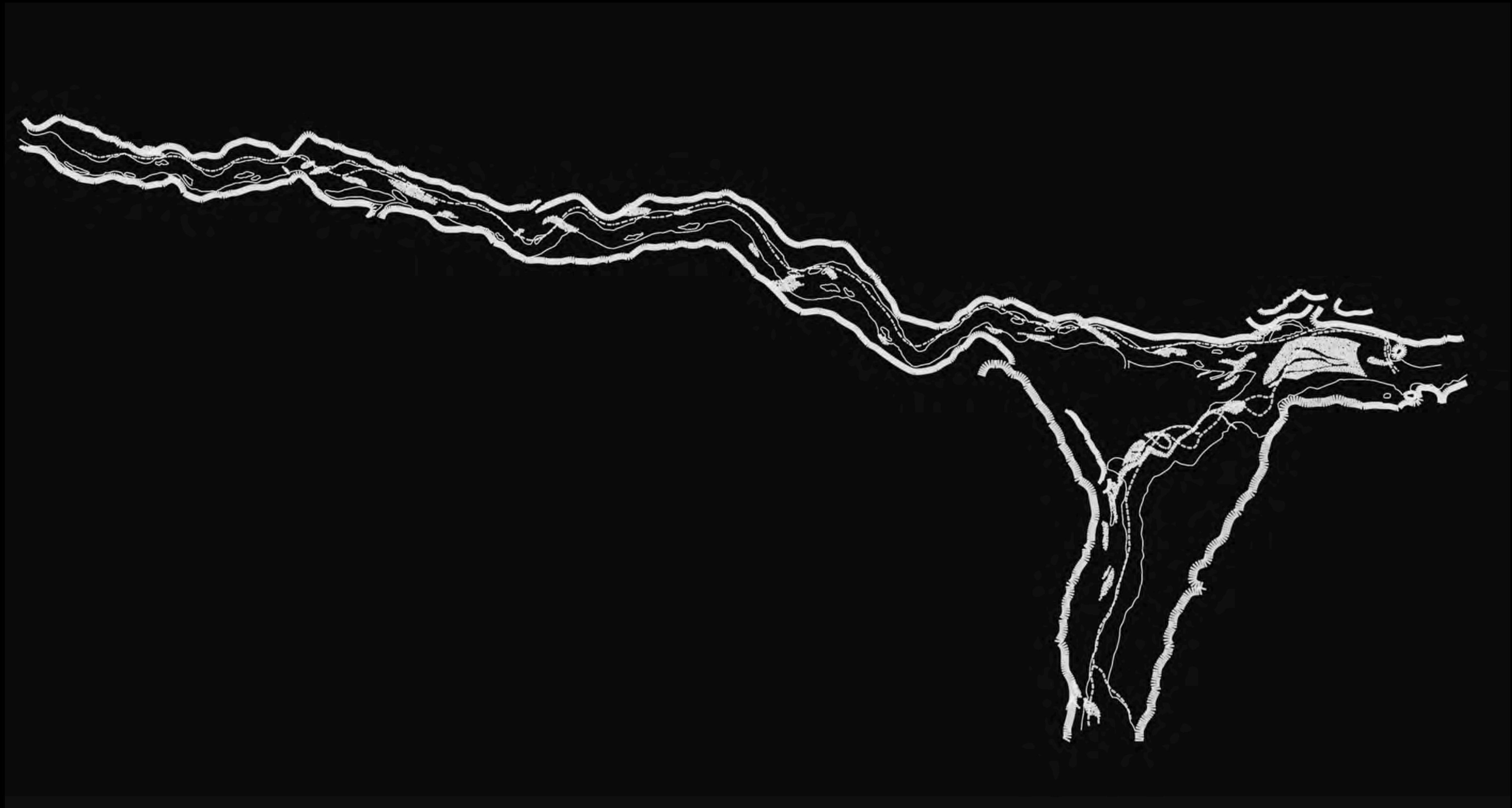


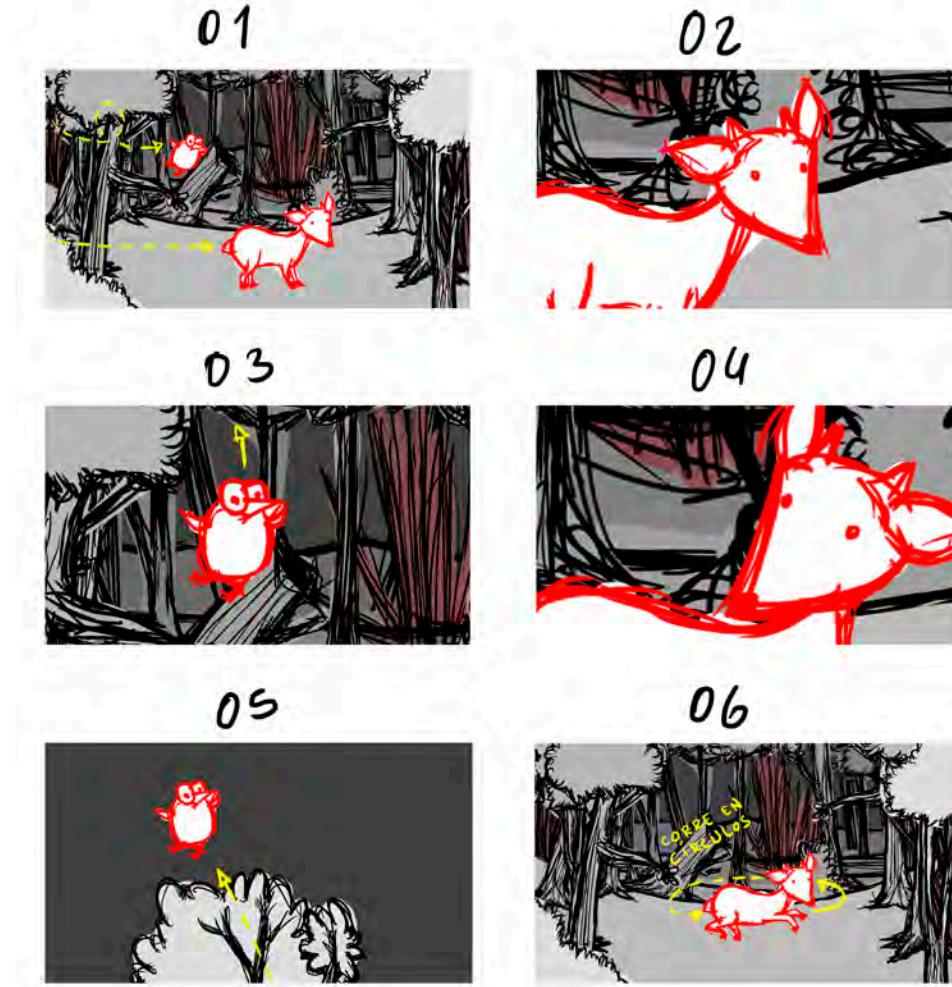
Media exports with transparency for multimedia use. Project: Paisajes en Disputa



<https://www.youtube.com/watch?v=e68RLAsrMzI>

Media exports with transparency for multimedia use. Project: Paisajes en Disputa





Animation TV Series for children: “CANCIONES DEL BOSQUE” (FOREST’S SONGS) 13 Episodes.

Character Design: Pablo Bernasconi. Artistic Director & Animation Direction: Carola Dreidemie. Animators: Fermin Valeros & Vallejos.
Production CPCA. Director: Matías P. Saccomanno



THANK YOU!

Carola Dreidemie