

Exploring artwork through Voronoi/Delaunay diagrams

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Two artists:

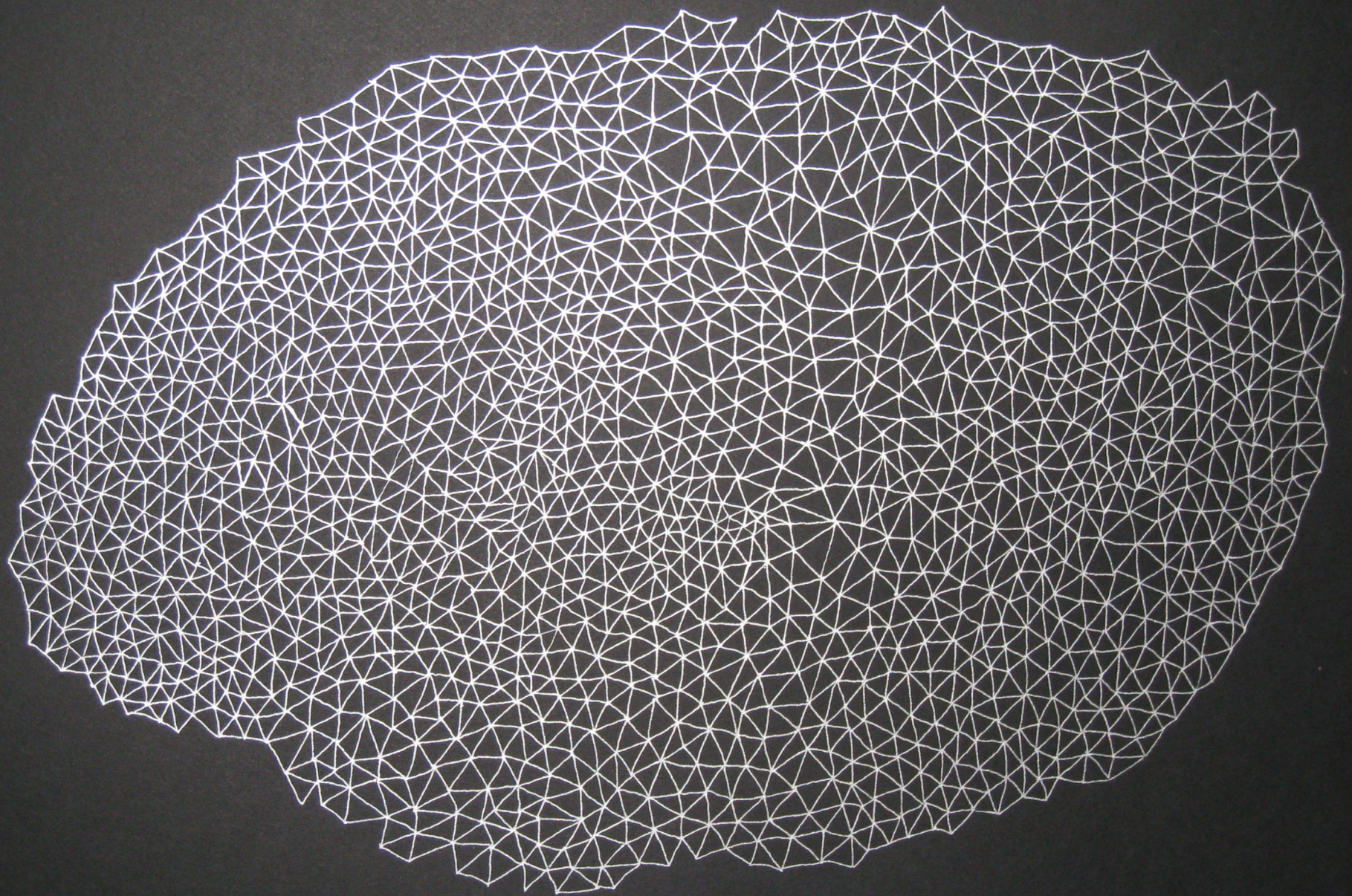
- Okuda (Oscar) San Miguel Erice

<http://okudart.es/showcase/>

- Curra Rueda Nuñez de Villavicencio

<http://currarueda.com>



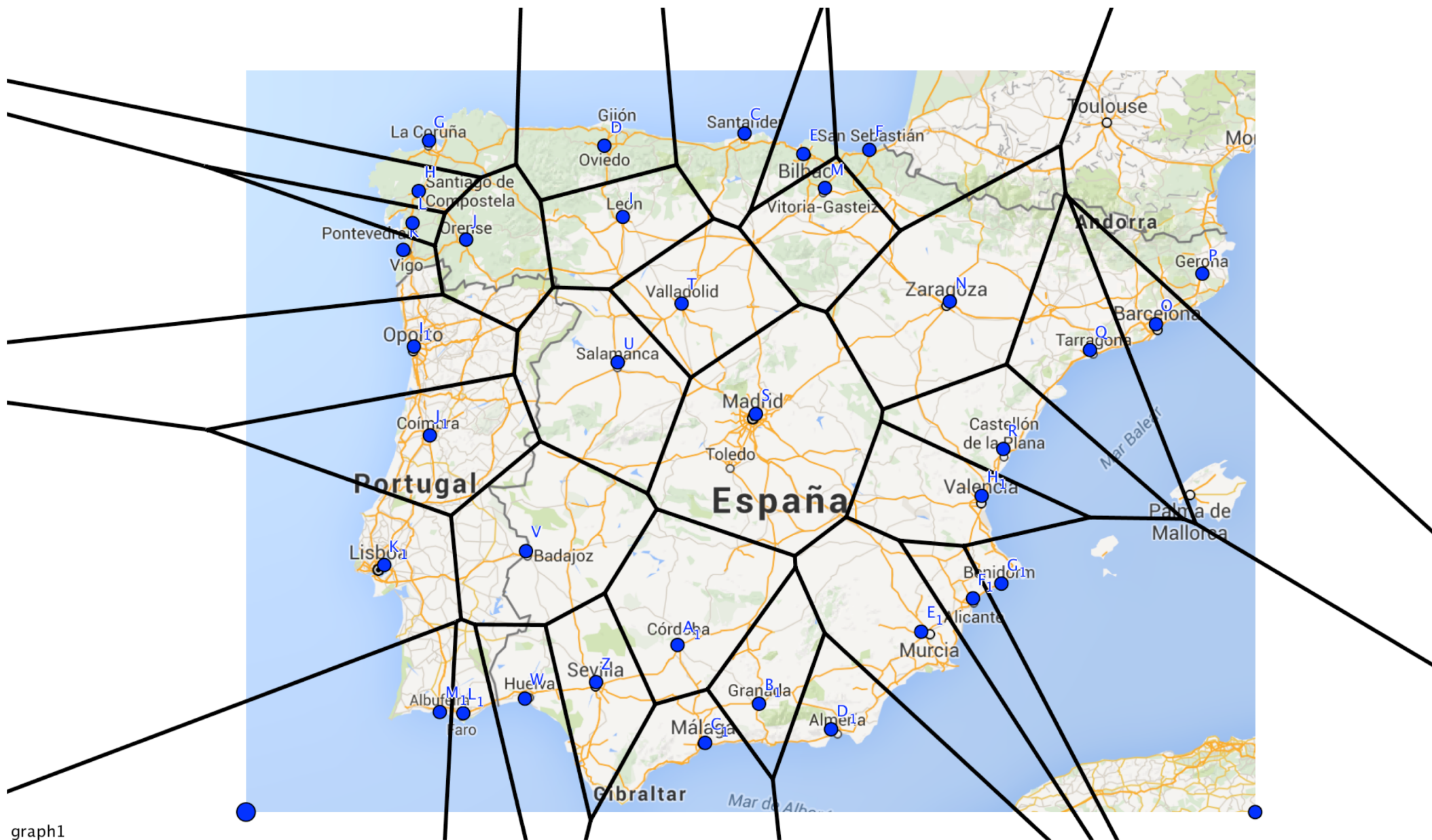


Two computational geometry concepts

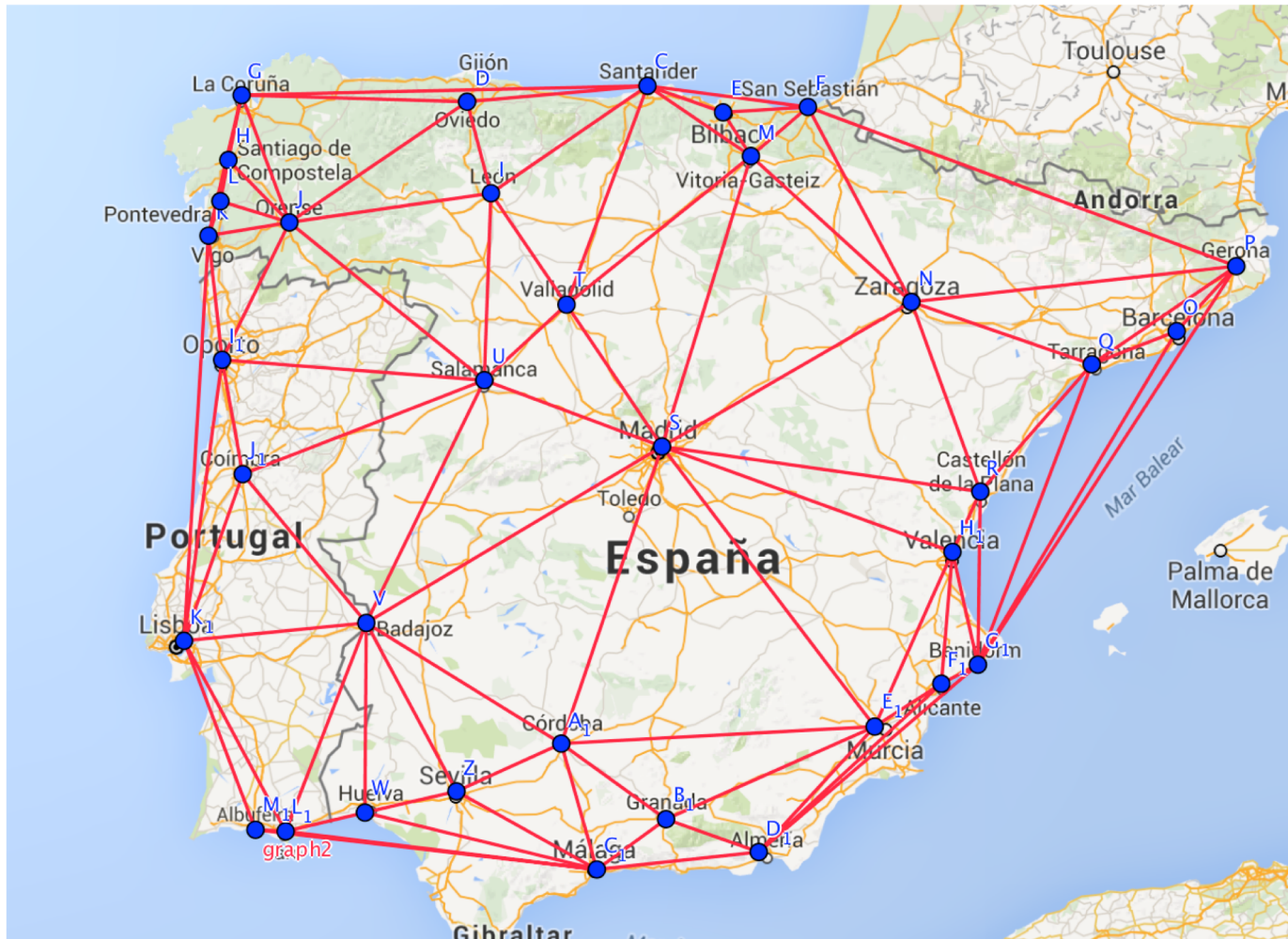
- Voronoi diagrams
- Delaunay triangulations

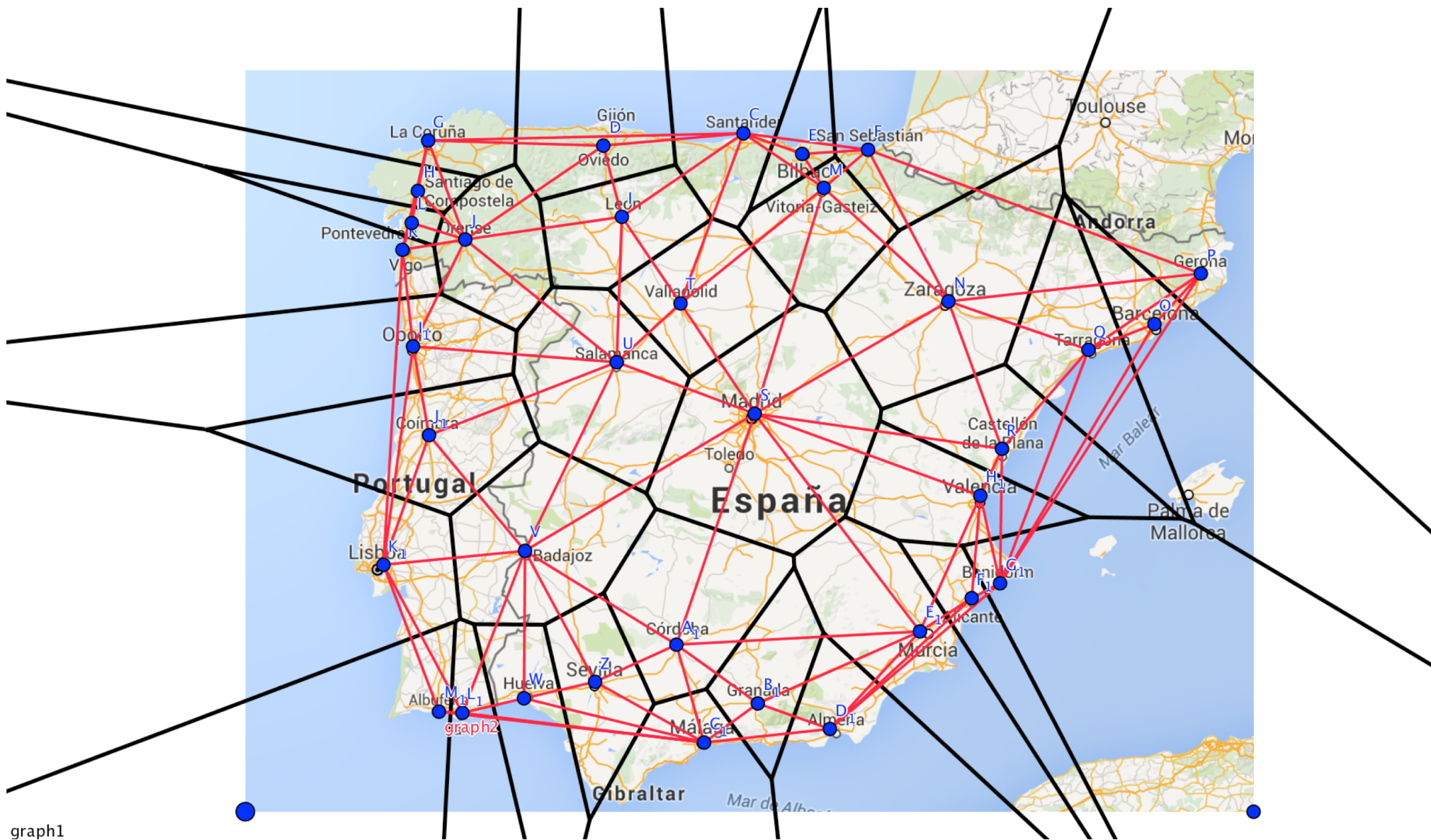
Voronoi Diagrams





Delaunay Triangulation





- ☐ Puntos
- ☐ Diagrama de Voronoi
- ☐ Triangulación de Delaunay

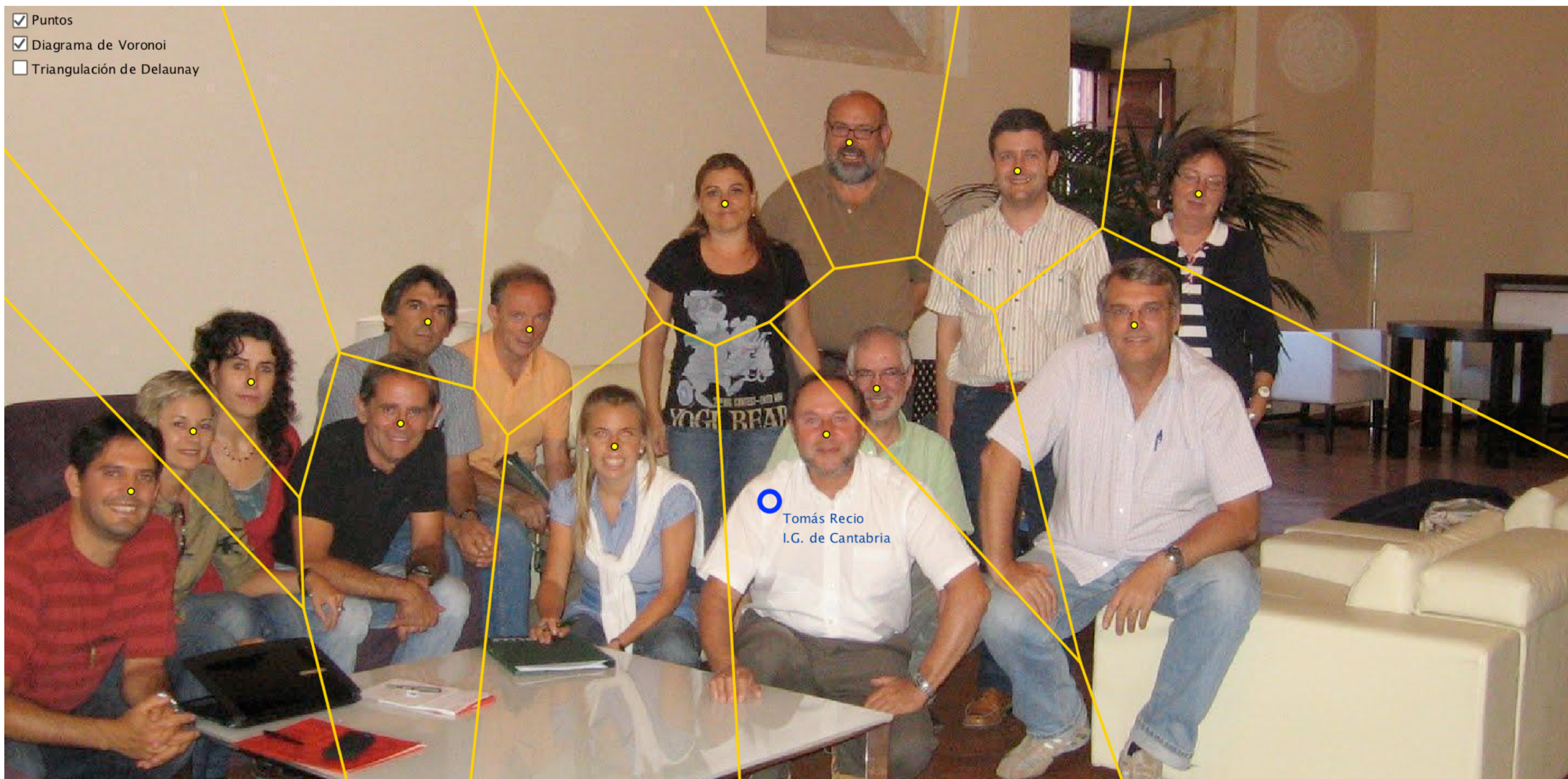


- ☒ Puntos
- ☐ Diagrama de Voronoi
- ☐ Triangulación de Delaunay

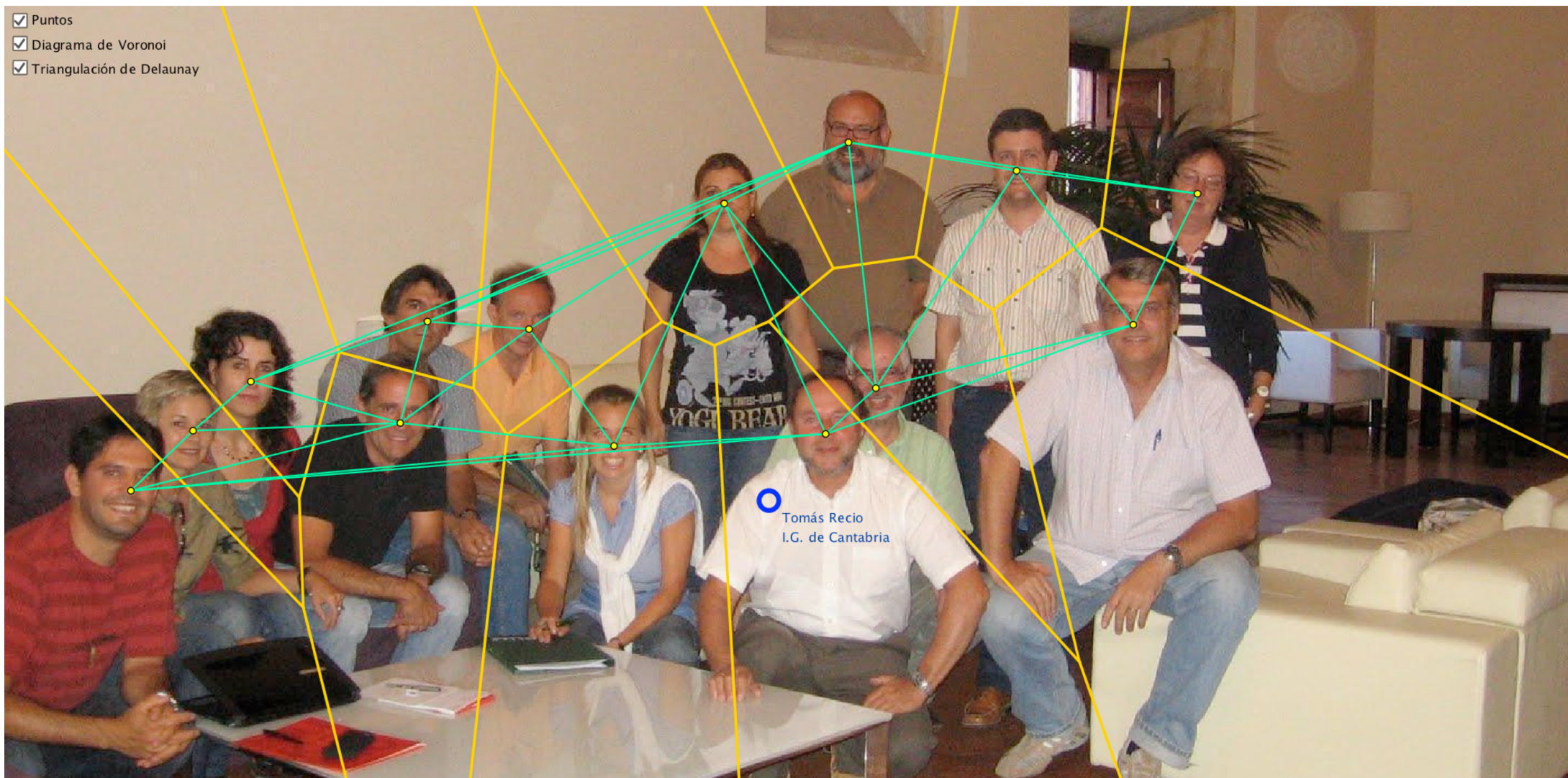


Tomás Recio
I.G. de Cantabria

- ☒ Puntos
- ☒ Diagrama de Voronoi
- ☐ Triangulación de Delaunay



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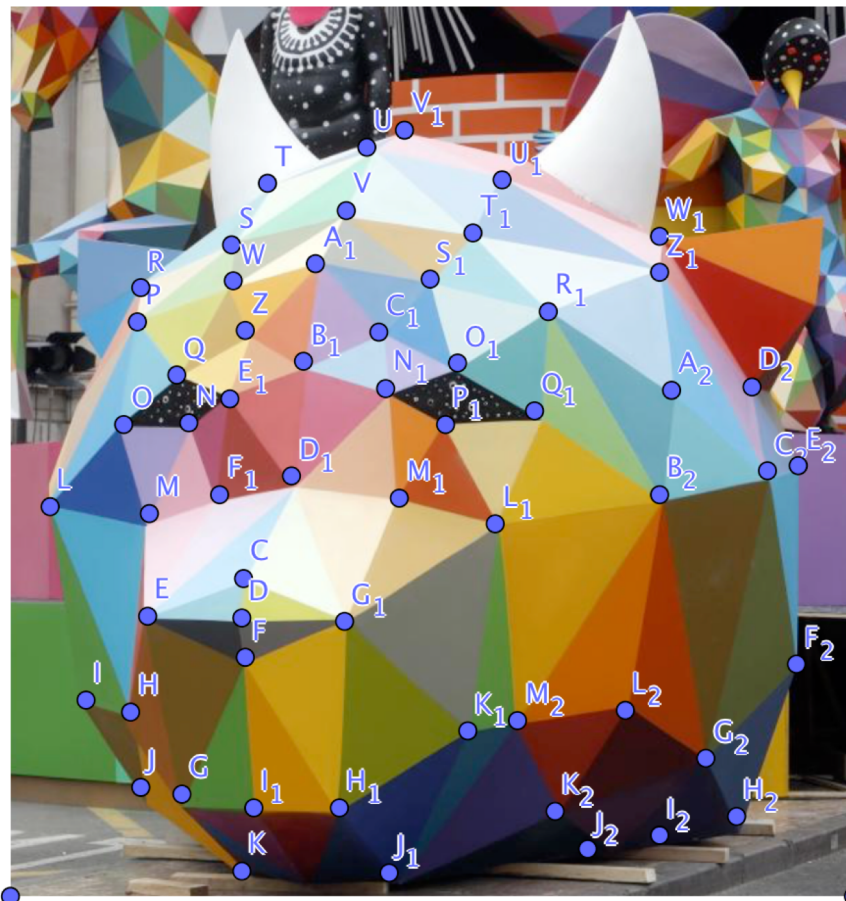
○ Tomás Recio
I.G. de Cantabria

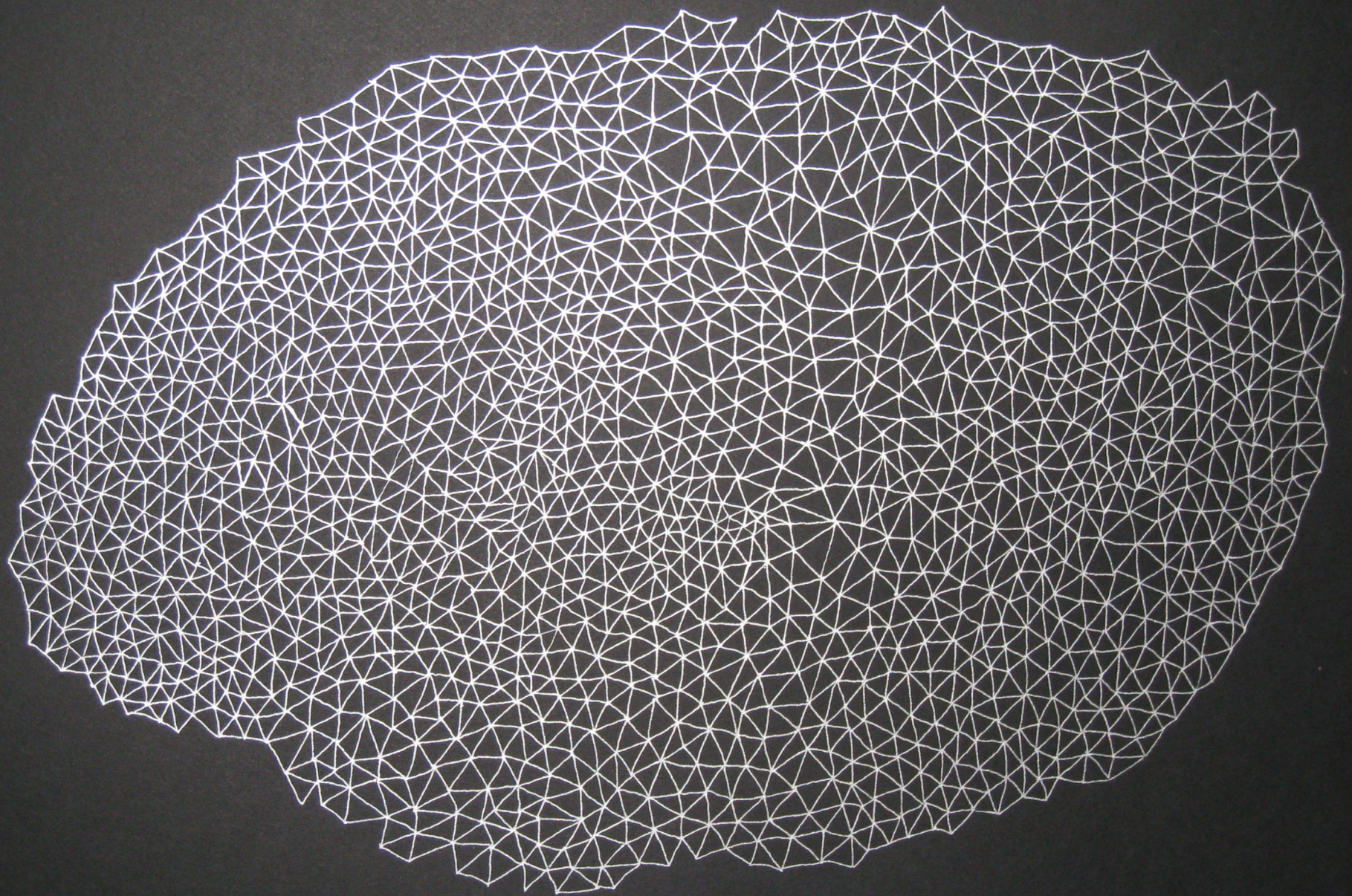
Two mathematical properties:

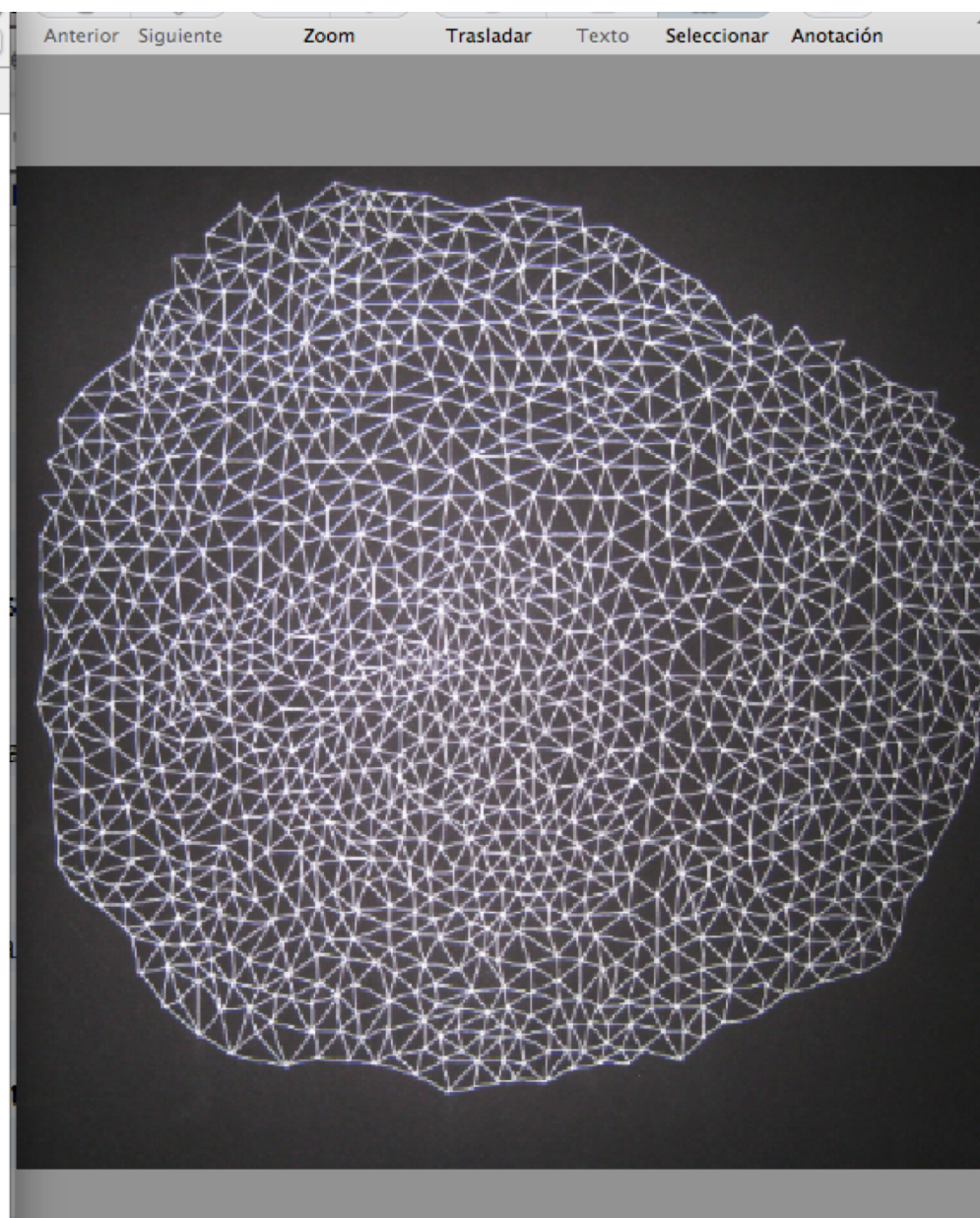
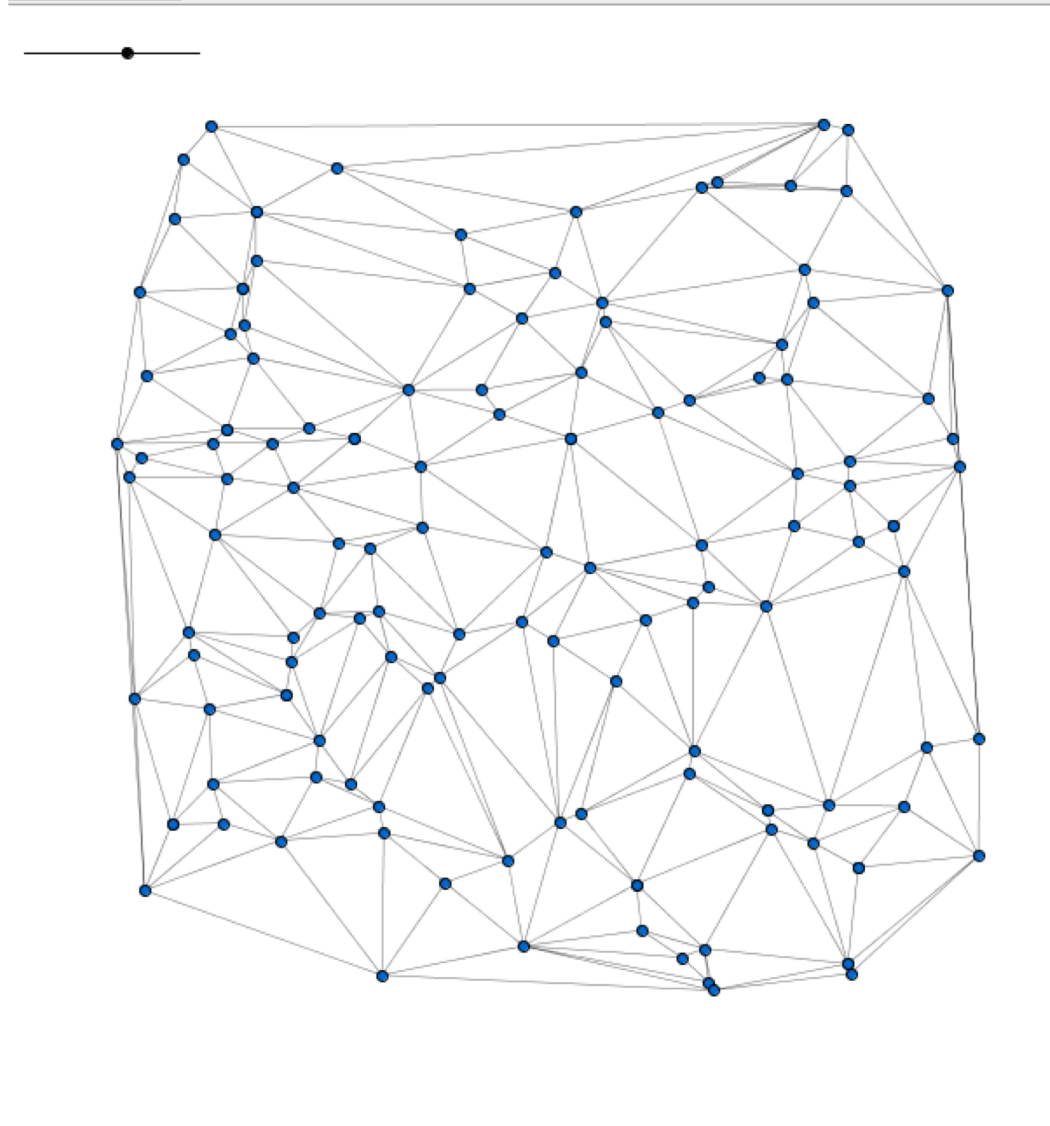
- Delaunay Triangulation: maximizes minimum angle
- Voronoi diagram: average cell has six edges (related Euler formula: $F + V - E = 2$)













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graph1



_KAOS TEMPLE

by Okuda

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Participa en la *transformación* de la historia del arte

Participate in the *transformation* of art history

<http://vkm.is/kaostemple>



graph2

Thank you!